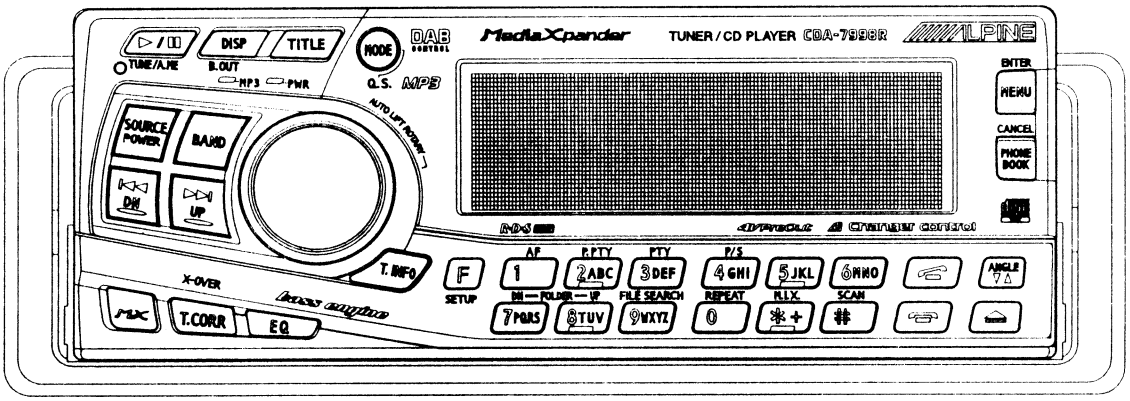
ALPINE

SERVICE MANUAL

FM/MW/LW/RDS CD Player

COMPACT disc DIGITAL AUDIO TEXT

MP3 MX DAB CONTROL



CDA-7998R

<Cautions for Safe Repair Work>

The following cautions will prevent accidents in the workplace and will ensure safe products.

●The symbols indicate caution is needed to prevent injuries and damage to property.
The symbols and their meanings follow.

⚠ Warning	If you ignore this symbol and handle the product incorrectly or unsafely, serious injury or death may result.
⚠ Caution	If you ignore this symbol and handle the product incorrectly or unsafely, injury or only material damage may result.

●The following symbols indicate two levels of cautions.

⚠	When you see this symbol, you have to be very careful.
❗	When you see this symbol, you have to follow the instructions there.

⚠ Warning

⚠ **Do not look squarely into the laser light coming from the pickup.** You may loose you sight.	❗ **Fuse Caution** Always use a designated fuse. Use of an incorrect fuse may result in a fire.

⚠ Caution

⚠ **Do not allow wiring to be caught in the screw/chassis.** If wiring is caught in the screw/chassis, it may cause a short circuit, resulting in a fire.	❗ **Battery Caution** Use the designated battery. Confirm the correct polarity and seat of the battery. An incorrect battery or an improperly connected or seated battery may result in a fire.
⚠ **High Temperature Caution** Touching the heat sink may cause severe burns.	❗ **Designated Parts Caution** Look up the part list and ensure that only designated parts are used to prevent problems or accidents.
⚠ **Reverse Power Supply Connections or Misconnections Caution** Reverse power supply connections or misconnections may cause ignition problems and smoke may result.	❗ **Wiring Caution** Ensure that the wiring is correct when rewiring to prevent problems with ignition/breakdown.
⚠ **Soldering Caution** Hot solder from solder splash may cause severe burns.	❗ **Wear Gloves** Wear gloves to prevent electrical shocks or injury from the end face of the metal.

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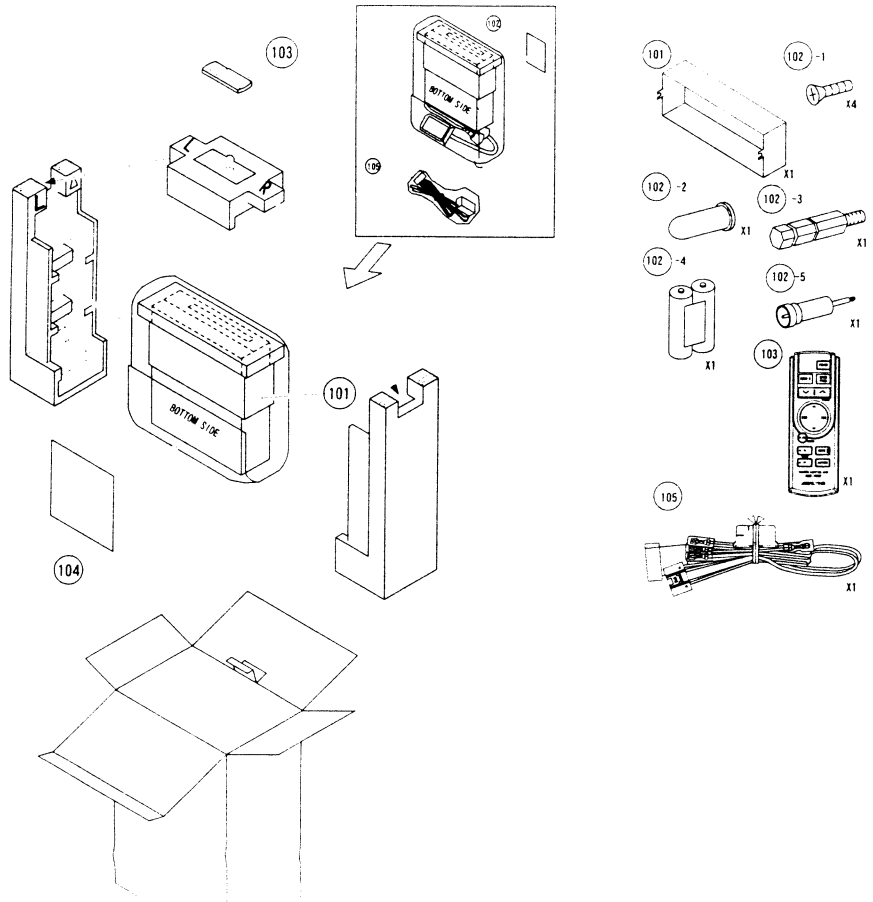
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.	Part No.	Description
101	15D50406W01	CASE, INNER
102-1	03S72235F13	SCR, MCH M5X8 FLAT
102-2	36A11113W01	CAP, RUBBER (A)
102-3	03A11112W01	BOLT, HEX, M5 (A)
102-4	60T55630W014	BAT, MGN R03 (NB) UM-4

Symbol No.	Part No.	Description
102-5	01T15394Y02	ANT, JASO-1SO
103	01T45518Y01	ASSY, REMOCON RUE4187
104	68P50520Y44	O/M AOEU
105	01T15359Y12	ASSY, WIRE PWR 7998R

Packing Method View



Specifications

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	20.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	23.2dBf
Residual Noise (Ref. 400Hz (NARROW), at 98.1MHz)	30±10dB
S/N Ratio (at 98.1MHz)	Stereo : 55dB
	Mono : 58dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dBμ, at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB
	10kHz : -10±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	36.2dBf

<MW RADIO>

Intermediate Frequency	1st. : 10.7MHz
	2nd. : 450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	36dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB
	2.5kHz : -4+3, -5dB

<LW RADIO>

Intermediate Frequency	1st. : 10.7MHz
	2nd. : 450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	42dB
S/N Ratio (at 216kHz)	44dB
Image Rejection (at 270kHz)	50dB
IF Rejection (at 162kHz)	60dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB
	2.5kHz : -4+3, -5dB

<Pickup>

Wave Length	795nm
Laser Power	CLASS I

<CD SECTION>

System	Optical (Compact Disc System)
Channel Balance (1kHz)	TCD-782 : 0±3dB
	SCD-4419 (FOLDER 4-BIT RATE 128k bps) : 0±3dB
Distortion (1kHz)	TCD-782 : 0.3%
	SCD-4419 (FOLDER 4-BIT RATE 128k bps) : 0.3%
Frequency Response (Ref. 1kHz / 0dB)	TCD-782 : 17Hz : 0±3dB
	127Hz : 0±2dB
	10.007kHz : 0±2dB
	19.997kHz : -2±4dB
	SCD-4419 (FOLDER 4-BIT RATE 128k bps) : 17Hz : 0±3dB
	127Hz : 0±2dB
	10.007kHz : 0±2dB
	19.997kHz : -2±4dB
S/N Ratio (0-bit MUTE OFF)	TCD-782 : 80dB
	SCD-4419 (FOLDER 4-BIT RATE 128k bps) : 80dB
Separation (1kHz)	TCD-782 : 55dB
	SCD-4419 (FOLDER 4-BIT RATE 128k bps) : 55dB
De-Emphasis (Ref. 1kHz / 0dB)	TCD-782 : 4kHz : -20±3dB
	16kHz : -20±3dB

<GENERAL>

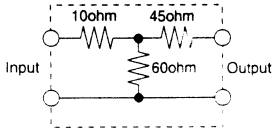
Power Supply	DC14.4V
Pre Output (TCD-782 (0dB, 1kHz), T.H.D. 1%) /Impedance	4V±2.5dBV/ch/10k ohm
Sub-Woofer Output Level (CD : 1kHz / 0dB, Sub-Woofer STEP 0, Ref. FRONT PRE-OUT)	-15±3dB
Back Up Current (ACC OFF After 1min., Then the NOSE is srtored.)	5mA
Dimensions (W×H×D)	Chassis : 178×50×156.5mm
	Nose : 165×60×24mm
	Nose Full Opened : 165×60×70.65mm
Weight	1.9kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

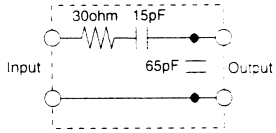
Adjustment Procedures

1. FM/AM SECTION

(1) Dummy Antenna Circuit



For 50 ohm FM Signal Generator Figure 1



For 50 ohm AM Signal Generator Figure 2

(2) Connections

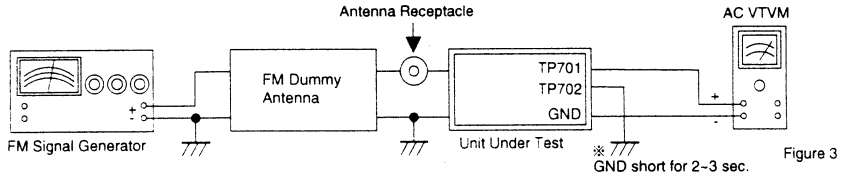


Figure 3

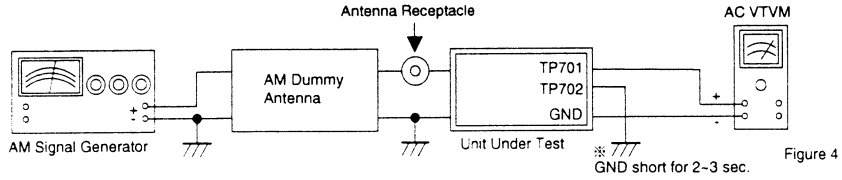


Figure 4

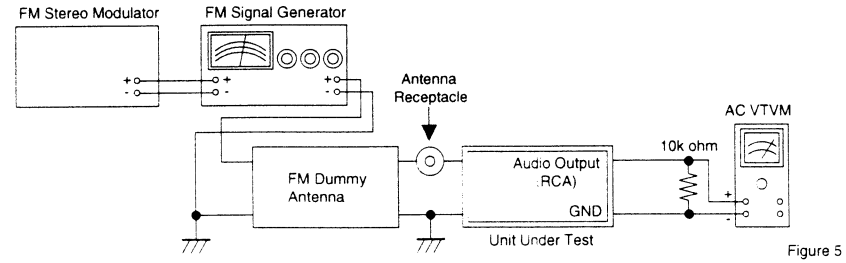


Figure 5

(3) Control Settings

Power Switch	ON	Band Switch	FM/AM
Fader Control	Center Position	MX	Non Effect
Balance Control	Center Position	T-CORR	Non Effect
EQ	Flat	Others	OFF
LPS	OFF		

(4) Adjustment Procedures

Step	Description	Connection	Signal Generator		Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	Signal Meter Auto Adjustment FM)	Figure 3	87.5MHz, 26dBμ (Mod. OFF)		87.5MHz	TP701 (2-D) TP702 (2-D)	Auto Adjustment : After setting up of Signal Genarator, short GND and TP702 (Pull-Down) for 2~3 seconds. (SPEC) 1.5±0.1V
2	Signal Meter Auto Adjustment (MW)	Figure 4	999kHz, 34dBμ (Mod. OFF)		999kHz	TP701 (2-D) TP702 (2-D)	Auto Adjustment : After setting up of Signal Genarator, short GND and TP702 (Pull-Down) for 2~3 seconds. (SPEC) 1.0±0.1V
3	FM ST Separation (Roll OFF) Adjustment	Figure 5	(1)	—	—	—	Set up of Adjustment Mode : Push [SOURCE/POWER] + [2/ABC/P.PTY] at the same time.
			(2)	98.1MHz, 72dBμ (Stereo, 1kHz, Lch only)	98.1MHz	Audio Output (RCA)	Push Preset Switches (1~5), and observe value of separation. Select Preset Switch of maximum separation. (SPEC) : separation : more than 20dB.
			(3)	—	—	—	Cancel Adjustment Mode : Push [SOURCE/POWER] + [2/ABC/P.PTY] at the same time.
4	FM ST Blend Adjustment	Figure 5	(1)	—	—	—	Set up of Adjustment Mode : Push [SOURCE/POWER] + [7/PQRS/FOLDER-DN] at the same time.
			(2)	98.1MHz, 48dBμ (Stereo, 1kHz, Lch only)	98.1MHz	Audio Output (RCA)	Push Preset Switches (1~6), and observe value of blend. Select Preset Switch of 8±6dB . (SPEC) : blend : 8±6dB
			(3)	—	—	—	Cancel Adjustment Mode : Push [SOURCE/POWER] + [7/PQRS/FOLDER-DN] at the same time.

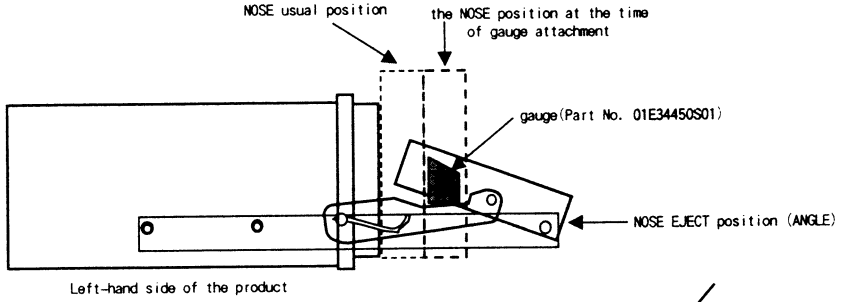
EJECT Position Adjustment

【1】 The necessity for NOSE EJECT position adjustment

The EJECT position of NOSE is memorized by EEP-ROM in initial setting. Therefore, even if it fixes by removing NOSE and attaches NOSE as it is, the EJECT position does not change. However, when LPS which takes out and determines the position is exchanged, it is necessary to set up the data of the EJECT position again.

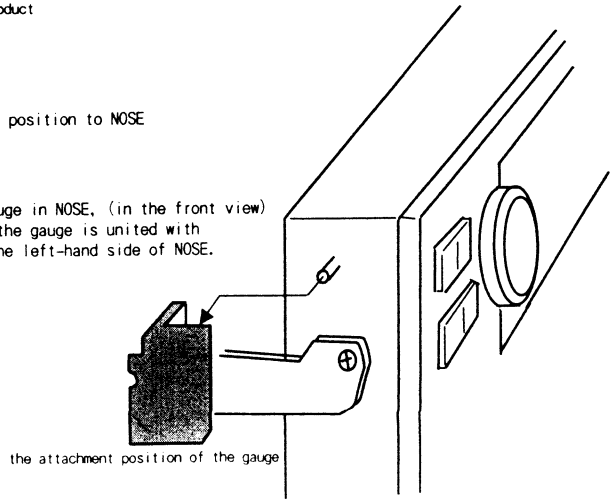
【2】 The setting method of the data of the NOSE EJECT position

1. The gauge (Part No. 01E34450S01) is attached in the left-hand side of NOSE in the position of NOSE which is taken out to the front from usual position..
2. POWER-SW and PRESET8-SW of the product are pushed simultaneously. (In this case, there is receptionist sound (short pee sound).)
3. If EJECT-SW is pushed for a long time, NOSE will open. And the gauge is inserted at the EJECT position, and ERROR sound (long pee sound) occurs. Then, NOSE carries out reversal operation in the closing direction, and stops to it. At this time, the EJECT position is memorized and position data is written in EEP-ROM.
4. Then, position adjustment is ended. (While adjusting, the display of the product does not change.) Please remove the gauge and push EJECT-SW at once. NOSE stops in the EJECT position. After that, it usually operates.

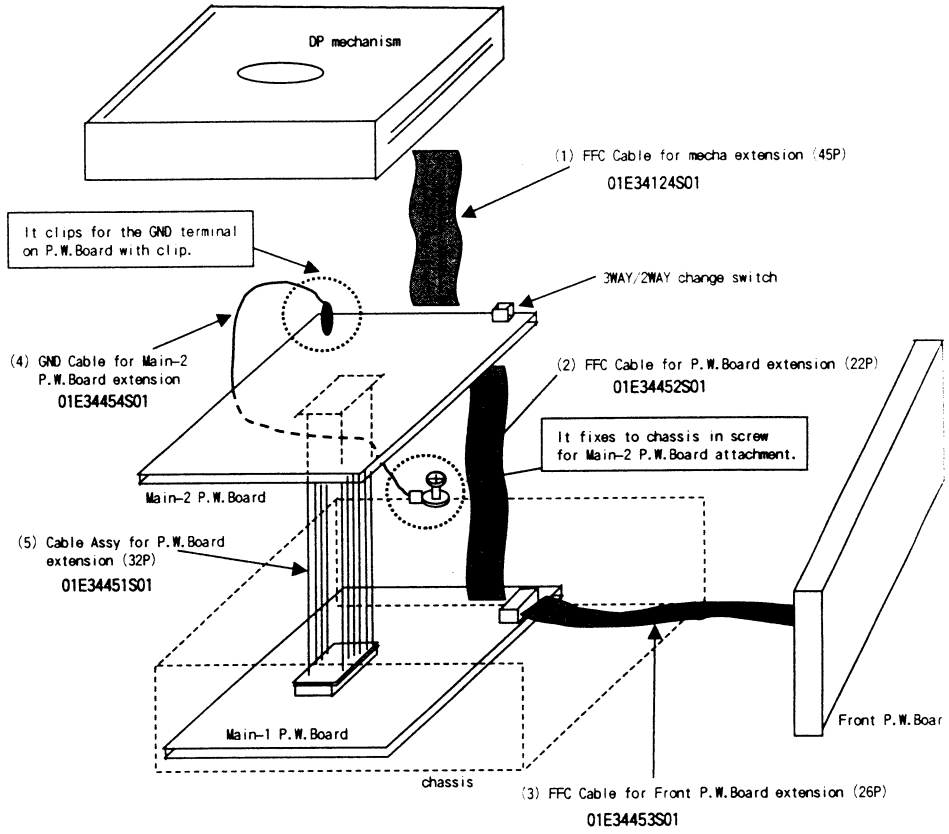

NOSE usual position
the NOSE position at the time of gauge attachment
gauge(Part No. 01E34450S01)
NOSE EJECT position (ANGLE)
Left-hand side of the product

【3】 The gauge attachment position to NOSE

When attaching the gauge in NOSE, (in the front view) the hole position of the gauge is united with the boss portion on the left-hand side of NOSE.



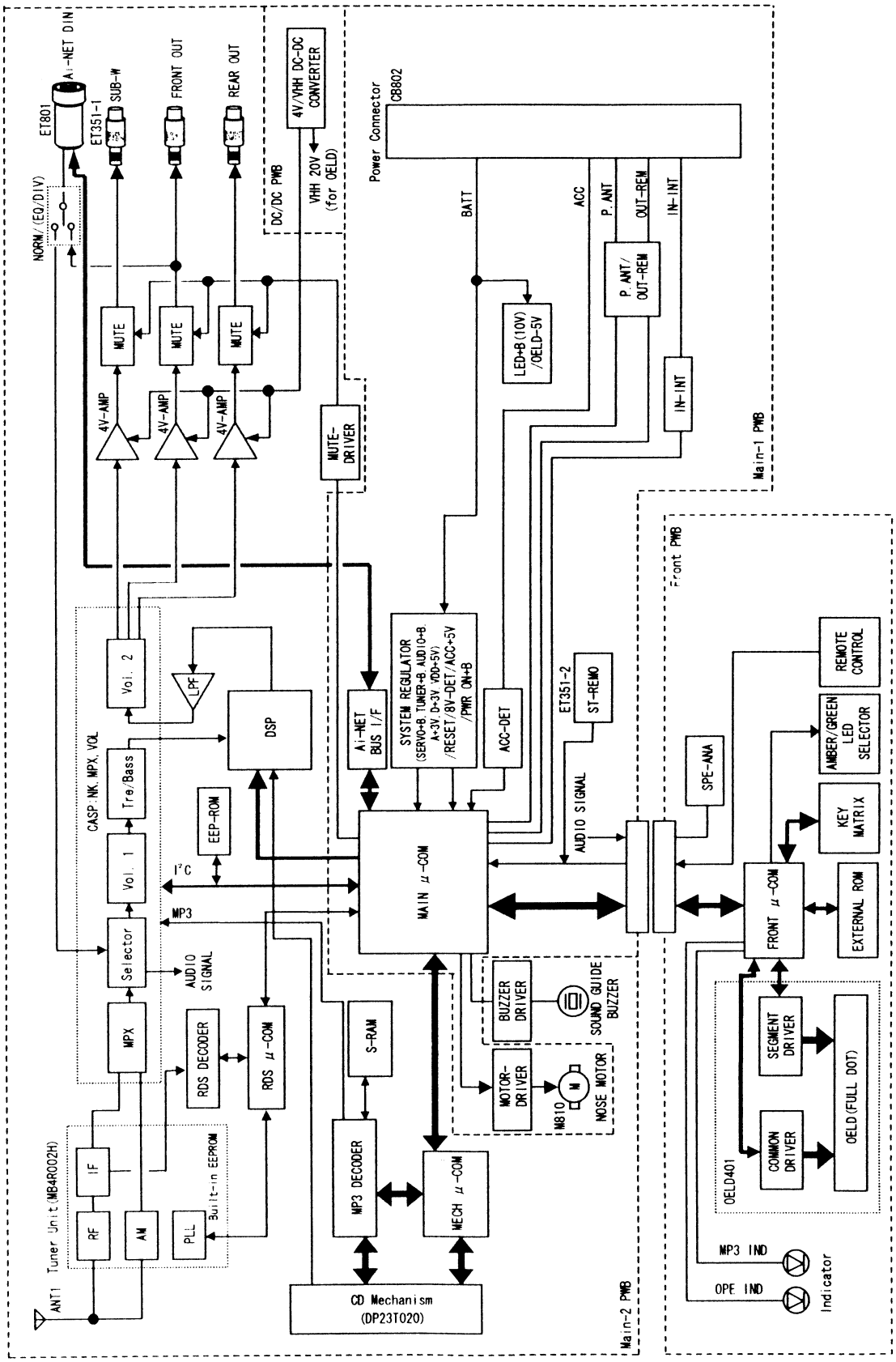
The connection method of Extension Cable


DP mechanism
(1) FFC Cable for mecha extension (45P)
01E34124S01
It clips for the GND terminal on P.W.Board with clip.
3WAY/2WAY change switch
(4) GND Cable for Main-2 P.W.Board extension
01E34454S01
(2) FFC Cable for P.W.Board extension (22P)
01E34452S01
It fixes to chassis in screw for Main-2 P.W.Board attachment.
Main-2 P.W.Board
(5) Cable Assy for P.W.Board extension (32P)
01E34451S01
Main-1 P.W.Board
Front P.W.Boar
chassis
(3) FFC Cable for Front P.W.Board extension (26P)
01E34453S01

Caution: The GND signal of 3WAY/2WAY change switch on Main-2 P.W.Board is connected to chassis by screw for P.W.Board attachment. Since GND is not connected when Main-2 P.W.Board is removed from chassis without using the Extension Cable of (4), the function of change switch stops working. (The function is set to 3WAY MODE and PRE-OUT is fixed to the output of F:HIGH/R:MID/SW:LOW.)

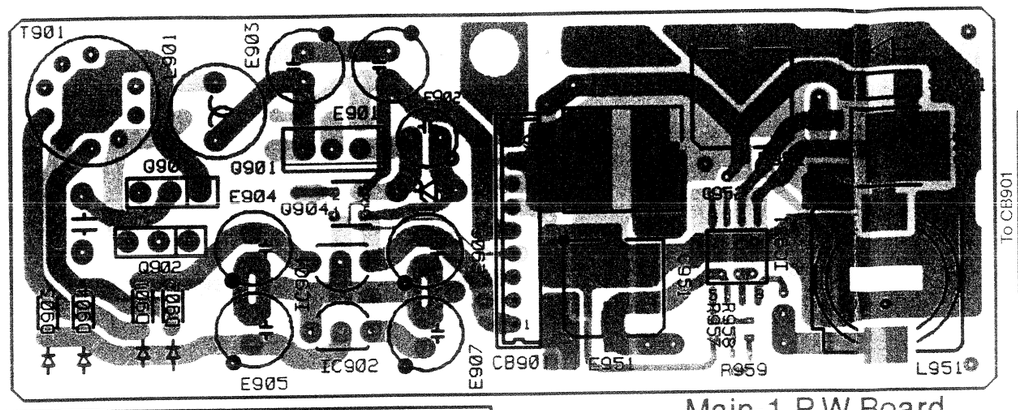
However, in the case of fixation in 3WAY mode, GND Cable for extension of Main-2 P.W.Board does not need to use.

Block Diagram



Parts Layout on P.W.Boards and Wiring Diagram (1/8)

DC/DC P.W.Board (Component Side View)



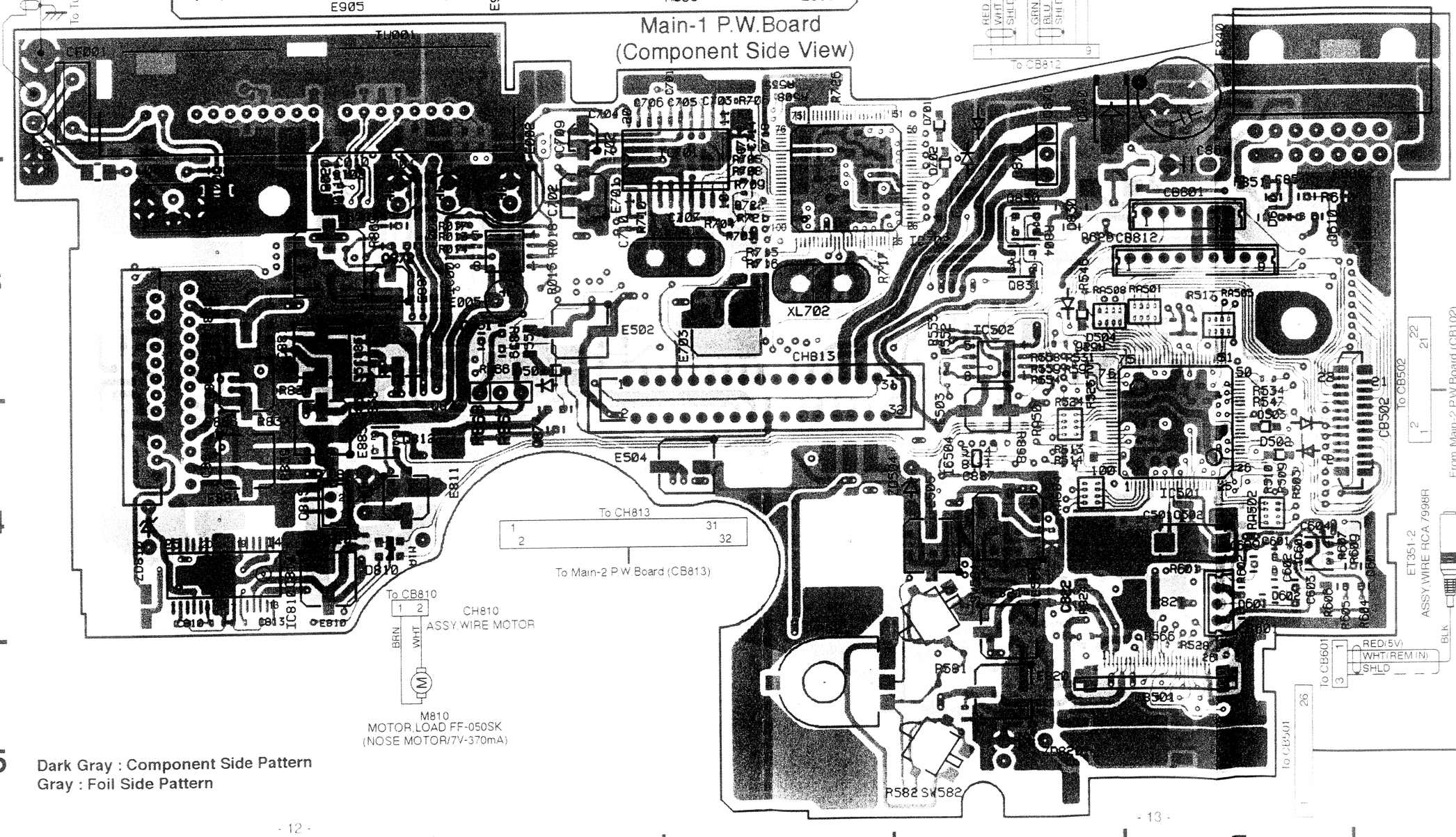
ANT1
ASSY,ANT CABLE 7844
BLK
WHT(ANT)
SHLD
To Tuner Chassis

To CB901
ET801-2
ASSY,DIN 7998A
SHLD
YEL
SHLD
BLU
GRN
GRY(2)
GRN
ORG
SHLD
WHT
GRY(1)
RED
GRN
GRY(1)
ORG
GRY(2)
YEL
SHLD
RED
WHT
SHLD
GRN
BLU
SHLD
To CB812

To Main-2 P.W Board (CB201)
BLU(CHG-L)
GRN(CHG-R)
SHLD
ET801-1
ASSY,DIN 7998A
BLU
GRY(2)
ORG(ACC)
GRY(1)
YEL(BATT)
SHLD
RED(BUS)
WHT(BUS)
SHLD
To CB801

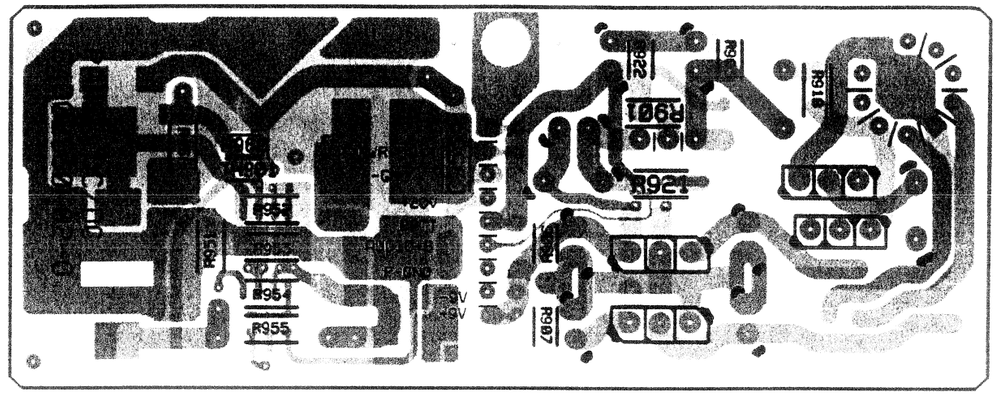
To Front P.W Board (CB401)

Main-1 P.W.Board (Component Side View)

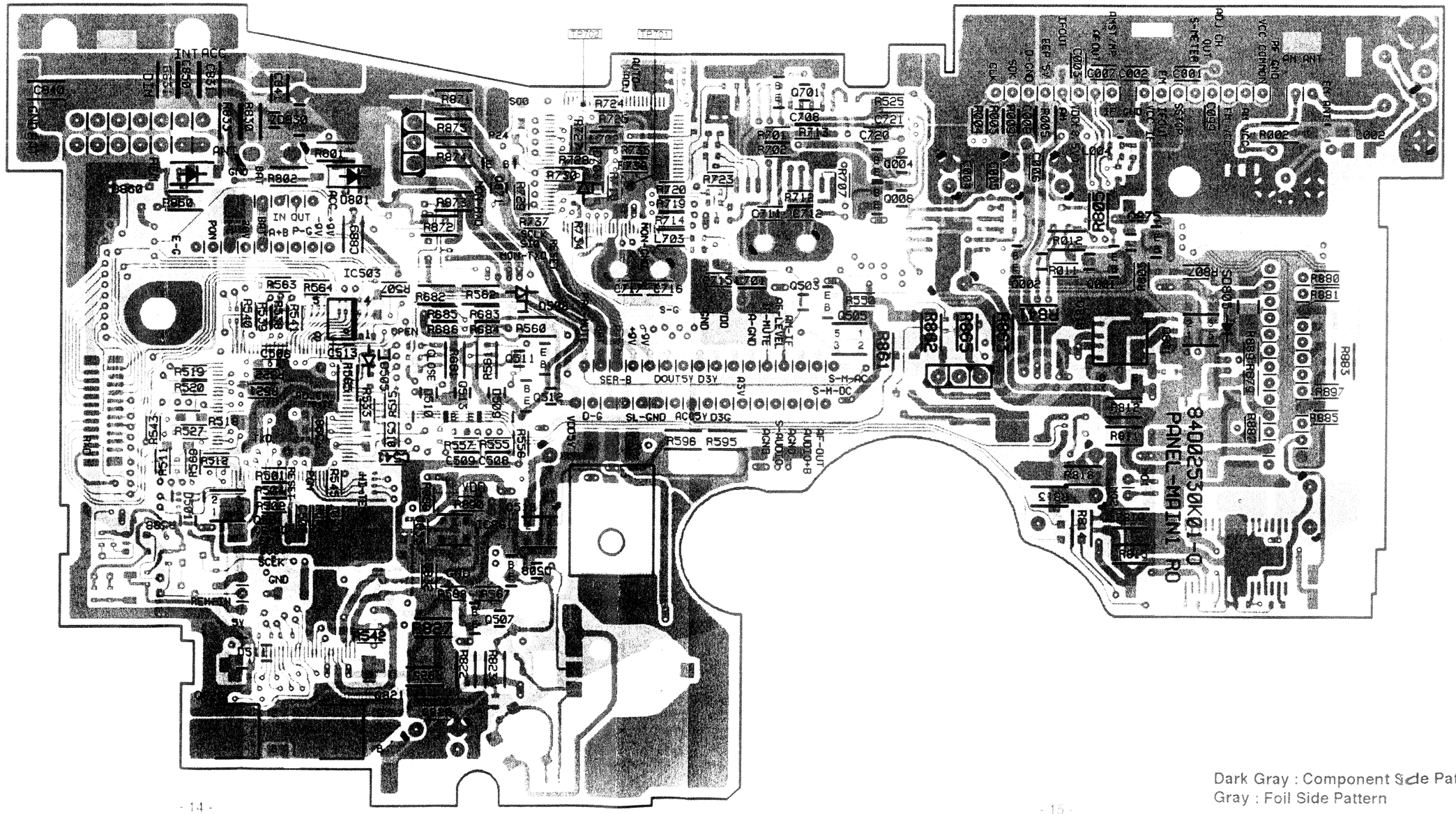


Parts Layout on P.W.Boards and Wiring Diagram (2/8)

DC/DC P.W.Board
(Foil Side View)

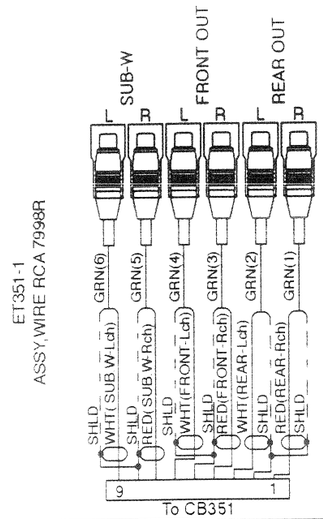


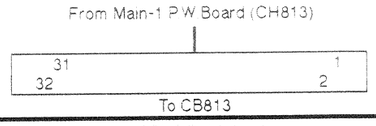
Main-1 P.W.Board (Foil Side View)



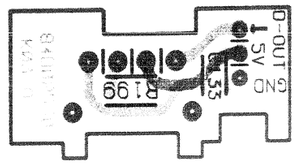
Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (3/8)

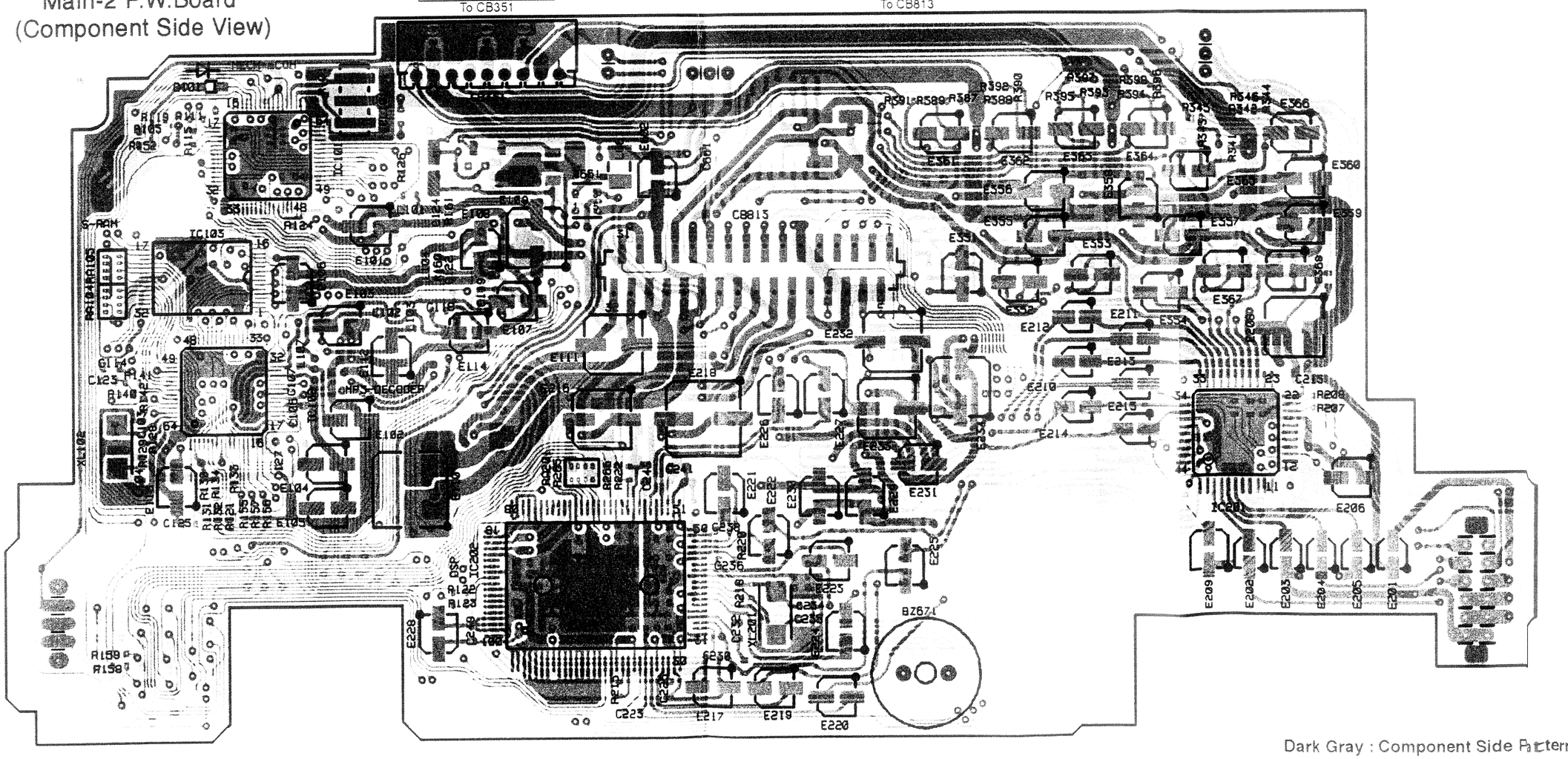




D-OUT P.W.Board
(Foil Side View)

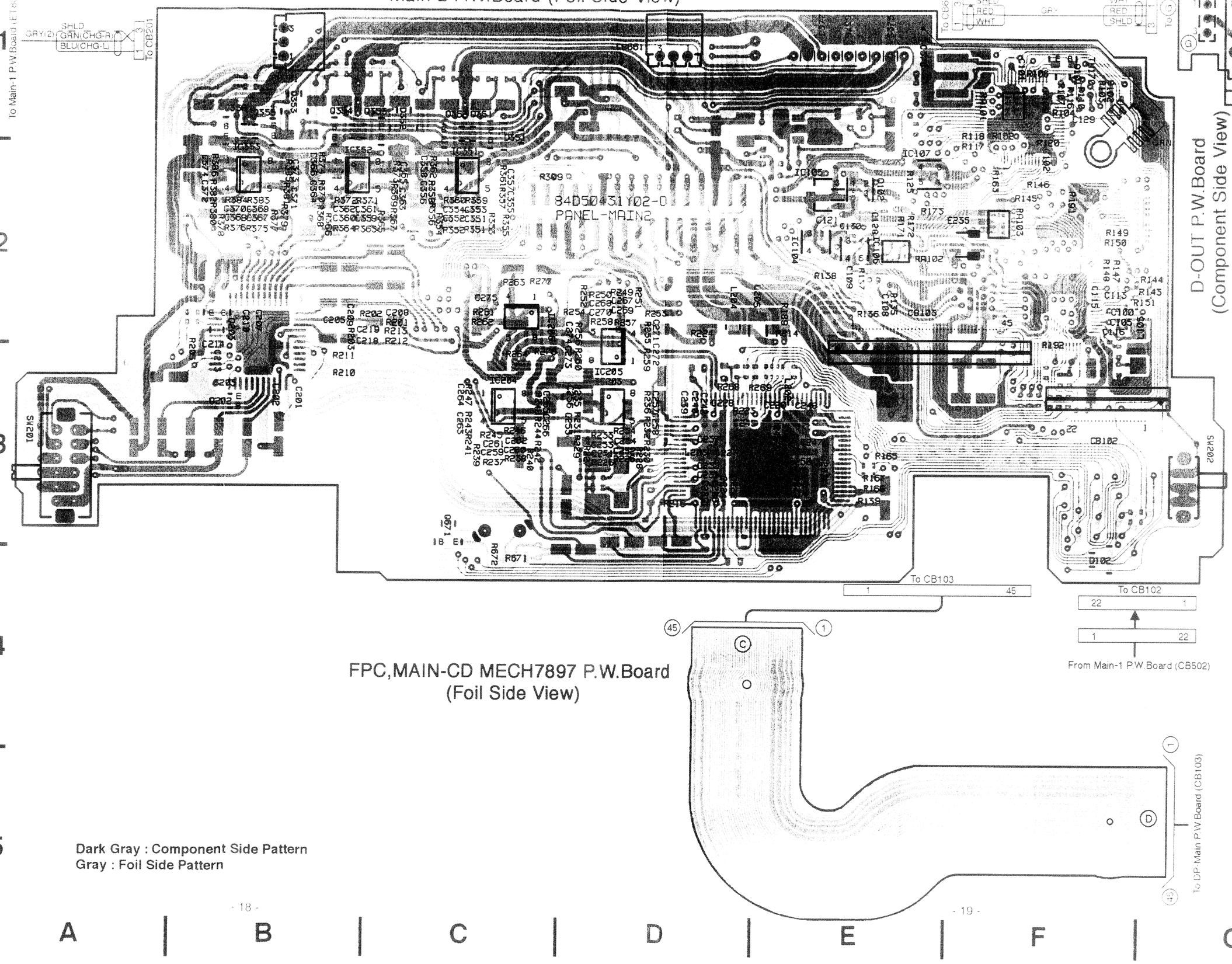


Main-2 P.W.Board
(Component Side View)



Parts Layout on P.W.Boards and Wiring Diagram (4/8)

Main-2 P.W.Board (Foil Side View)



FPC,MAIN-CD MECH7897 P.W.Board (Foil Side View)

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

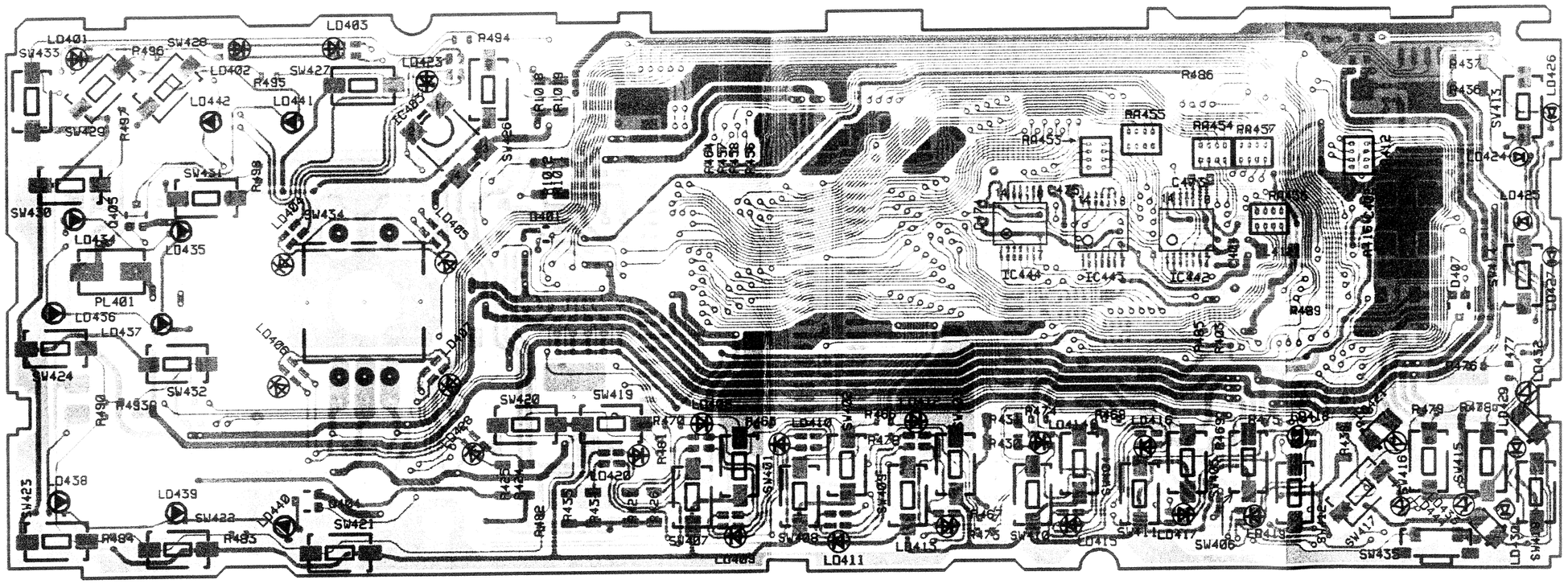
Parts Layout on P.W.Boards and Wiring Diagram (5/8)

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

1

2

Front P.W.Board (Component Side View)



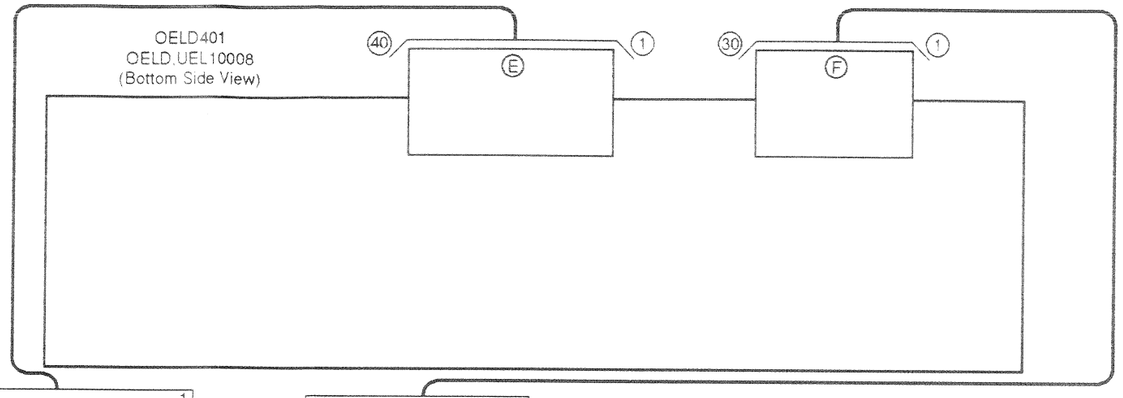
3

4

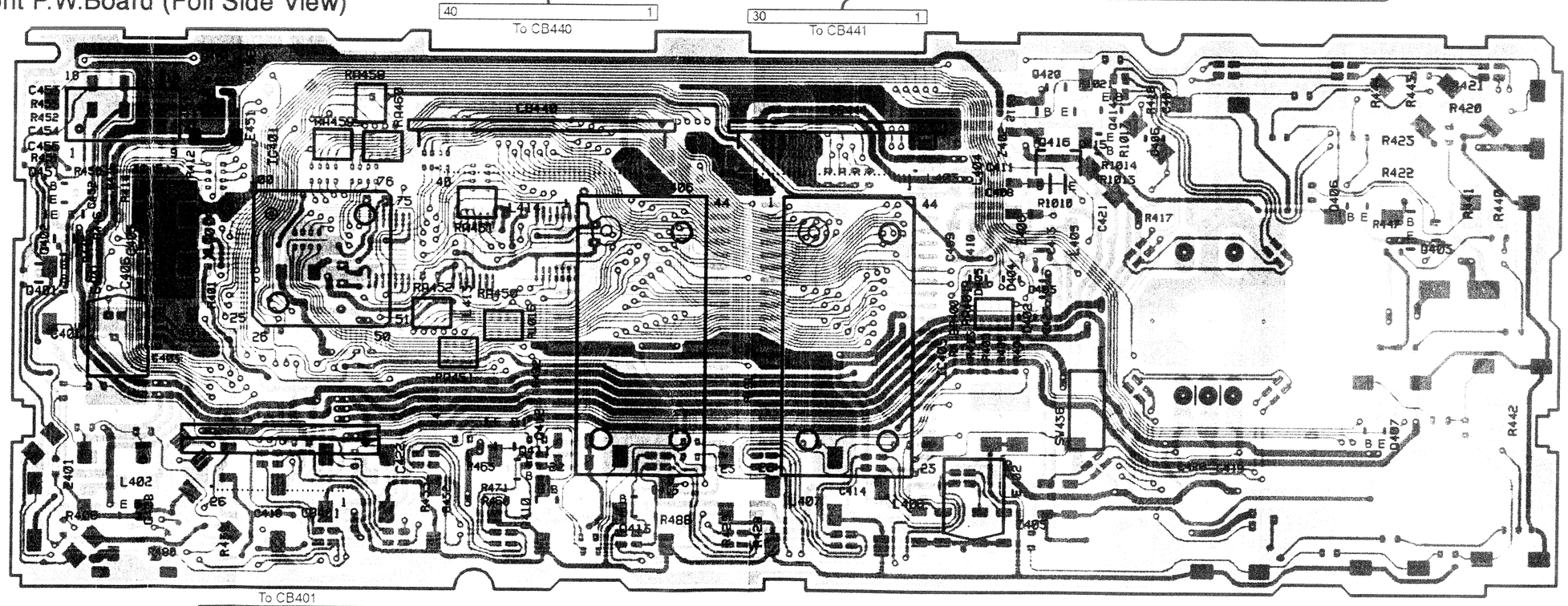
5

Parts Layout on P.W.Boards and Wiring Diagram (6/8)

OELD401
OELD.UEL10008
(Bottom Side View)



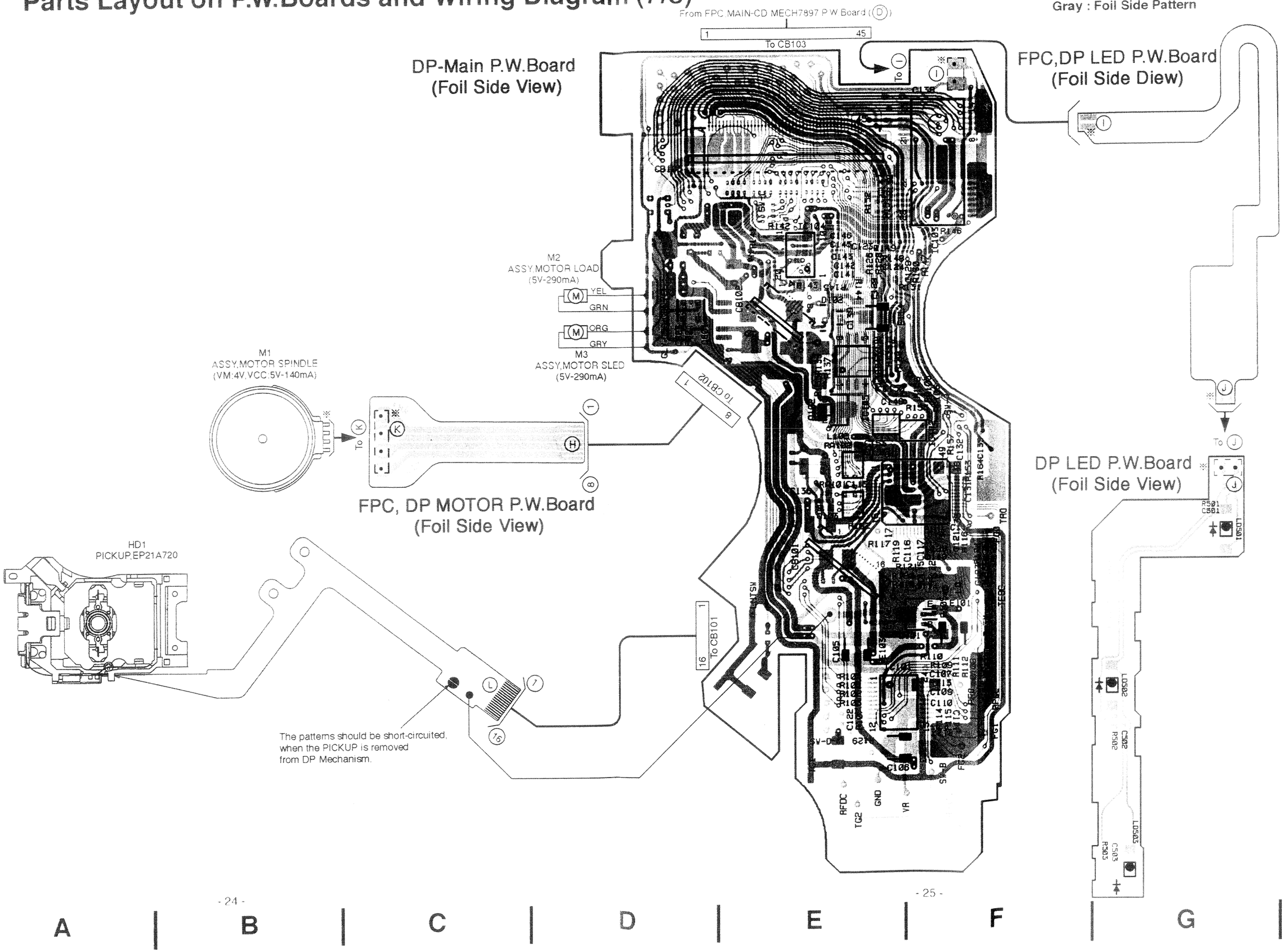
Front P.W.Board (Foil Side View)



Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

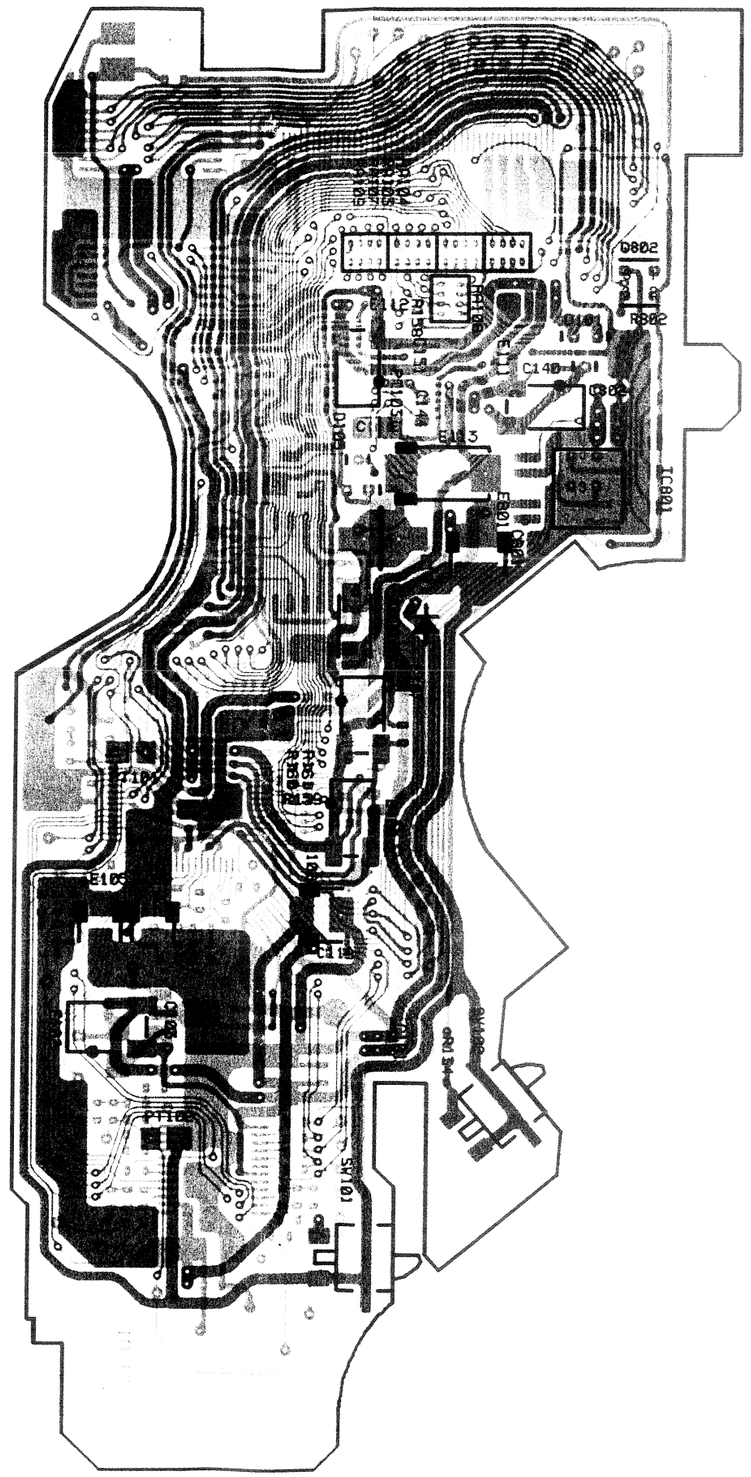
Parts Layout on P.W.Boards and Wiring Diagram (7/8)

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern



Parts Layout on P.W.Boards and Wiring Diagram (8/8)

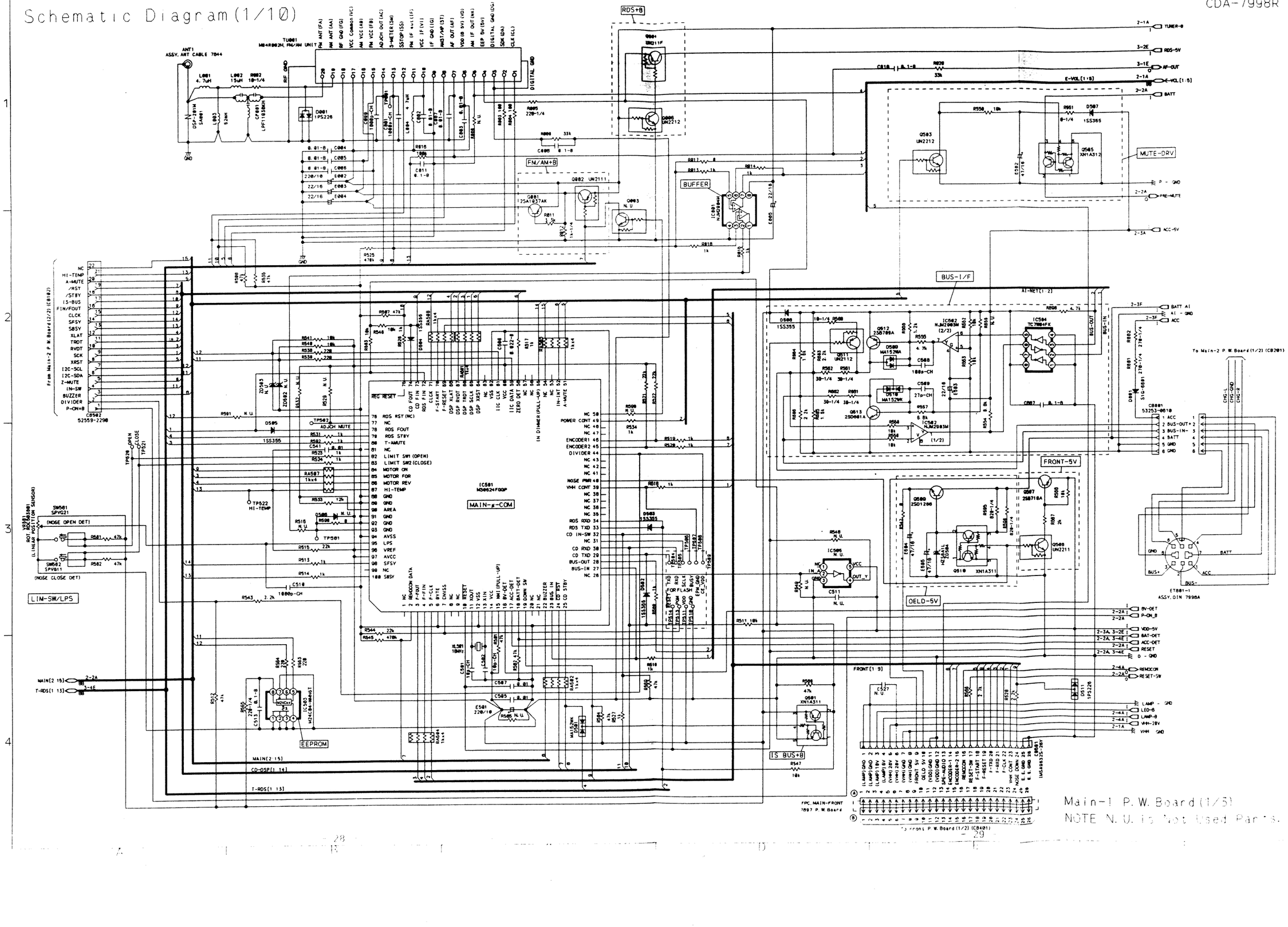
DP-Main P.W.Board (Component Side View)



Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Schematic Diagram (1/10)

CDA-7998R

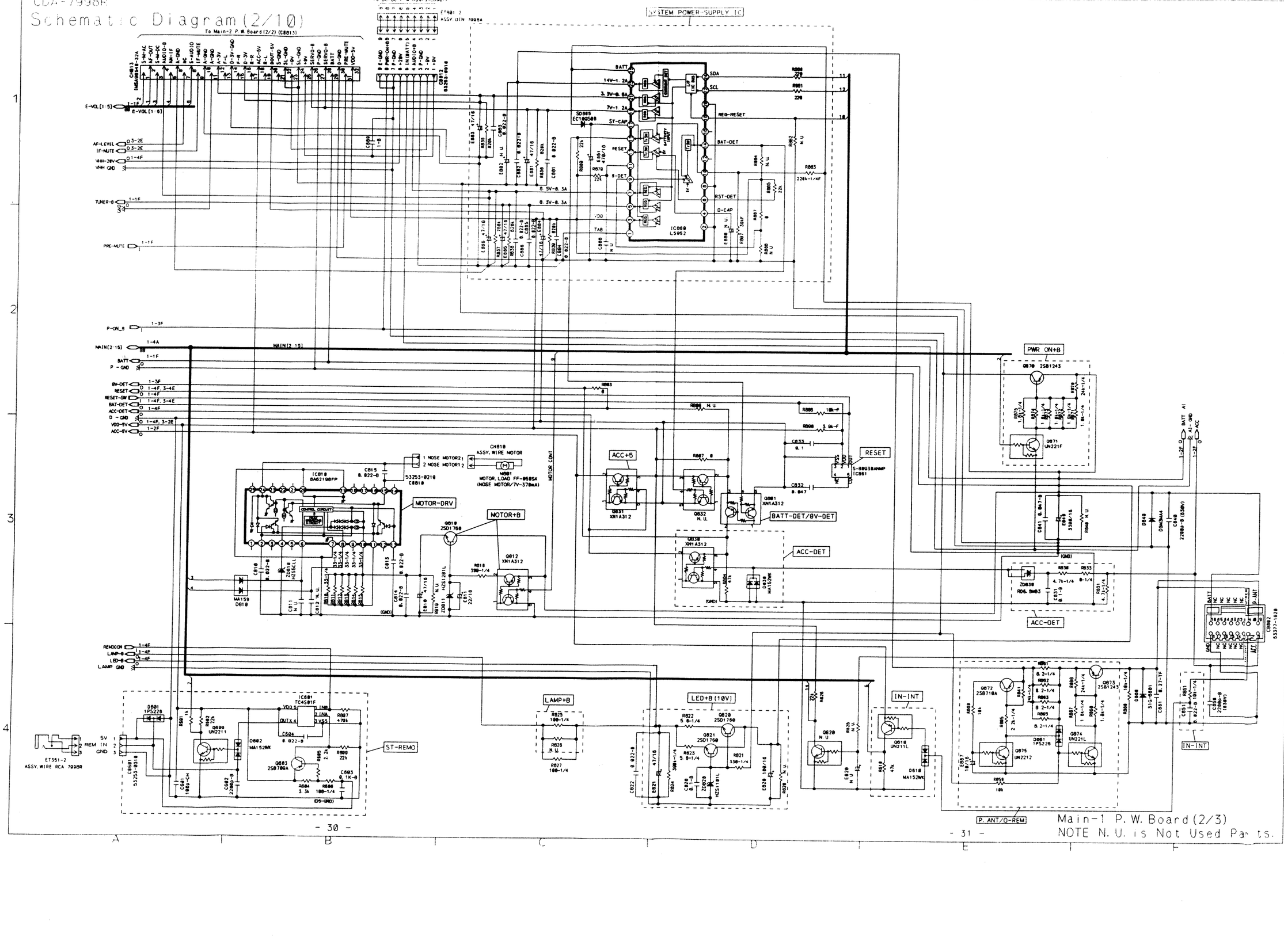


Main-1 P.W.Board(1/5)

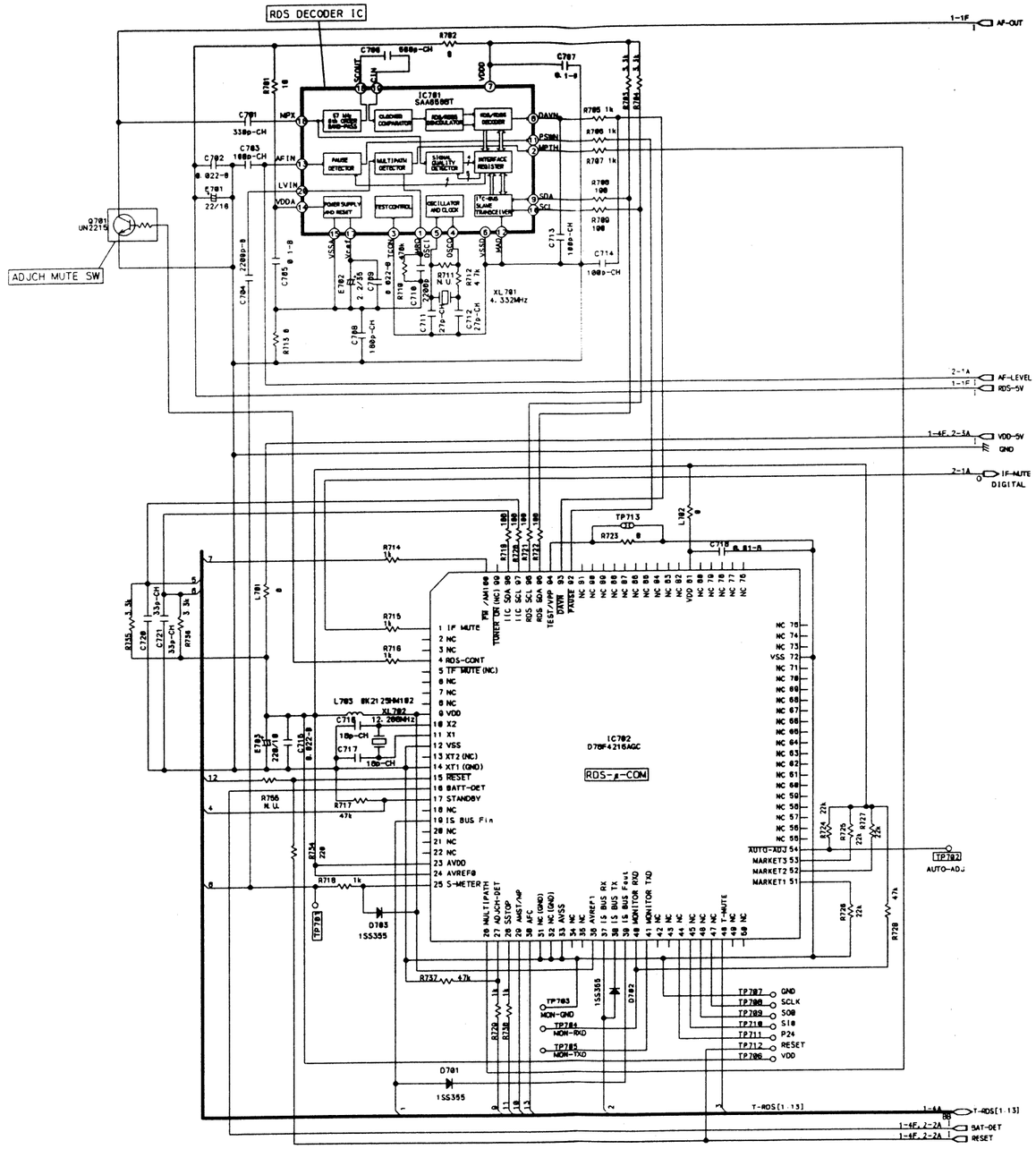
NOTE N.U. is Not Used Parts.

CDA-7998R

Schematic Diagram (2/10)



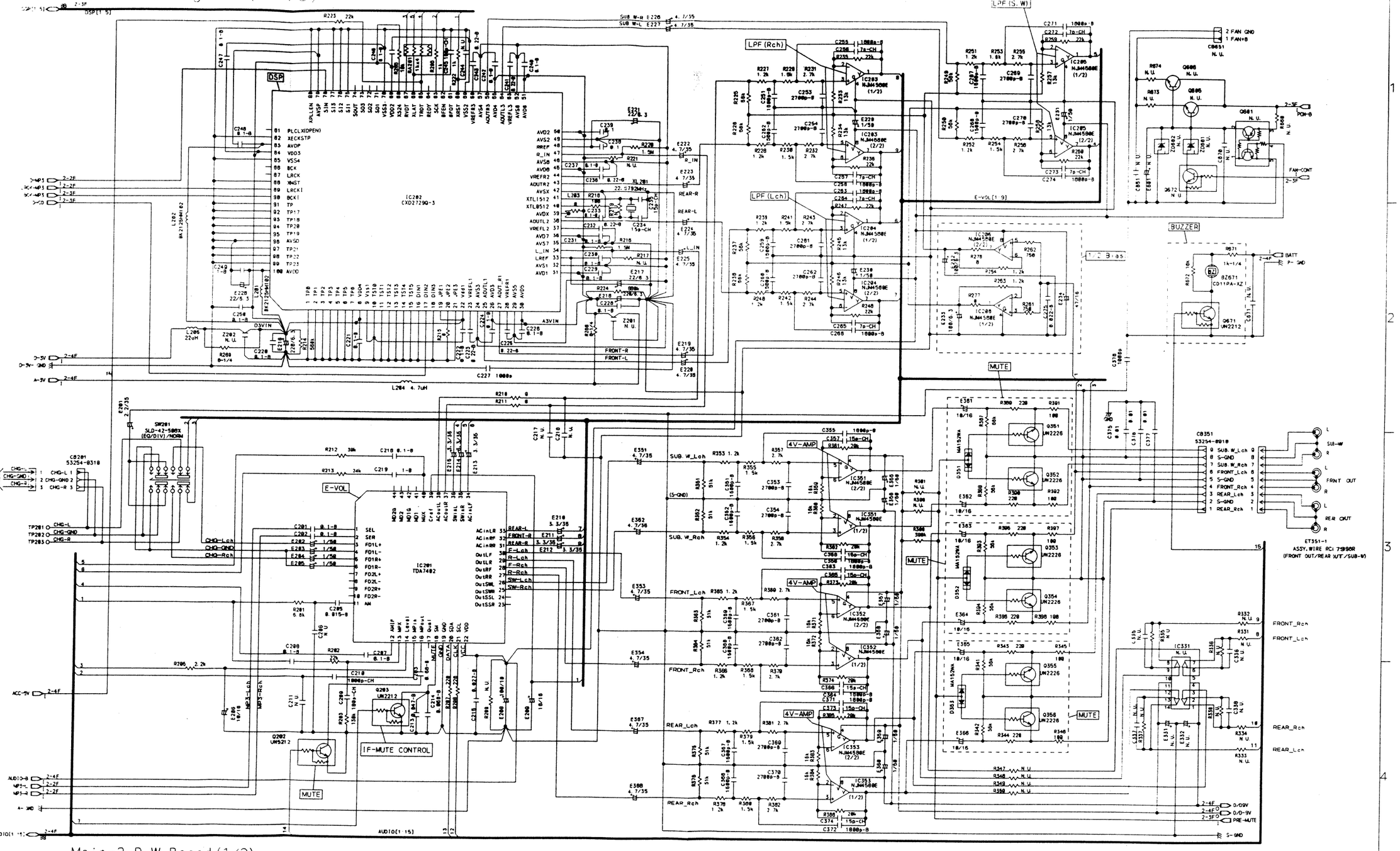
Schematic Diagram(3/10)



Main-1 P.W.Board(3/3)

NOTE N.U. is Not Used Parts.

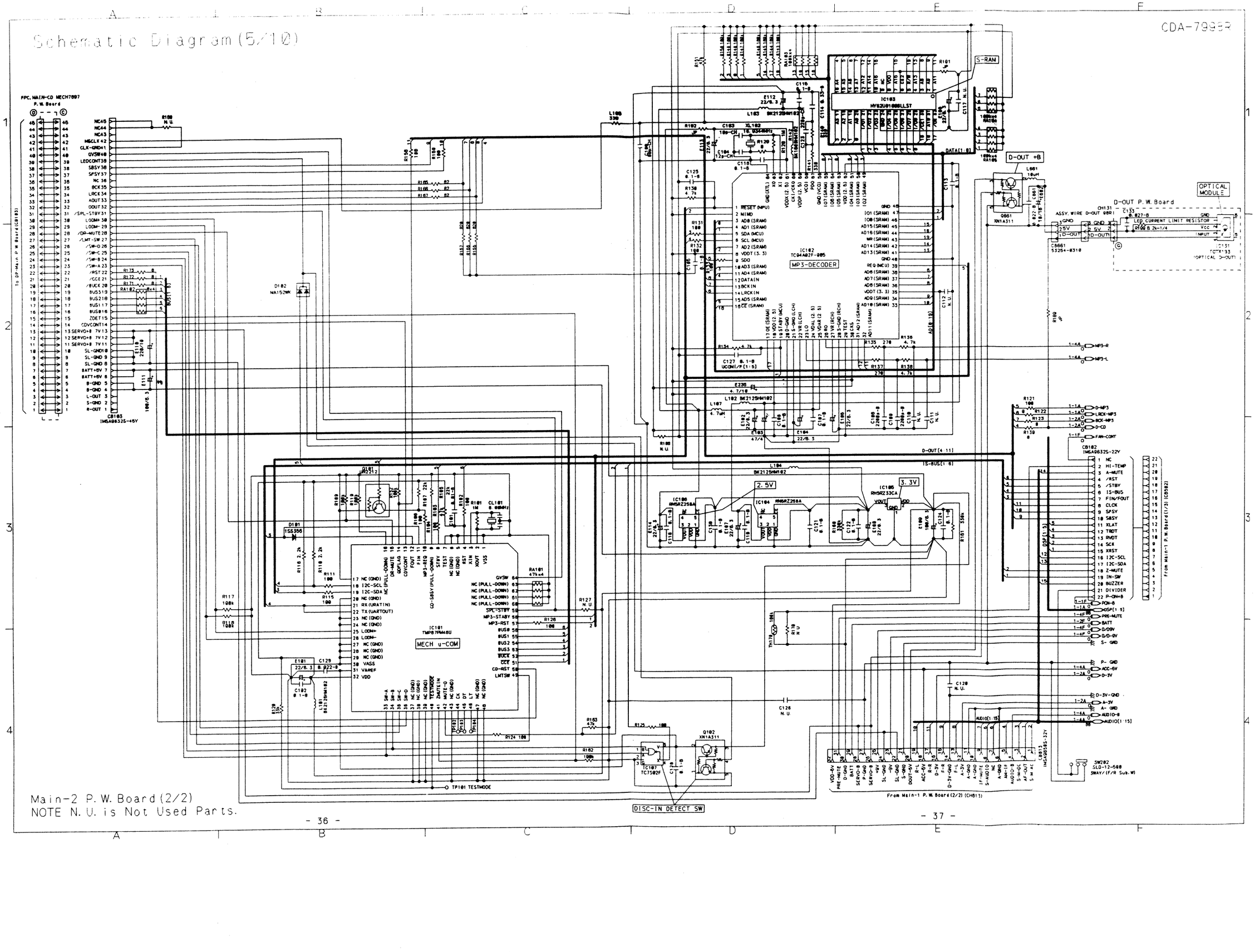
Schematic Diagram (4/10)



Main-2 P.W. Board (1/2)
NOTE N.U. is Not Used Parts.

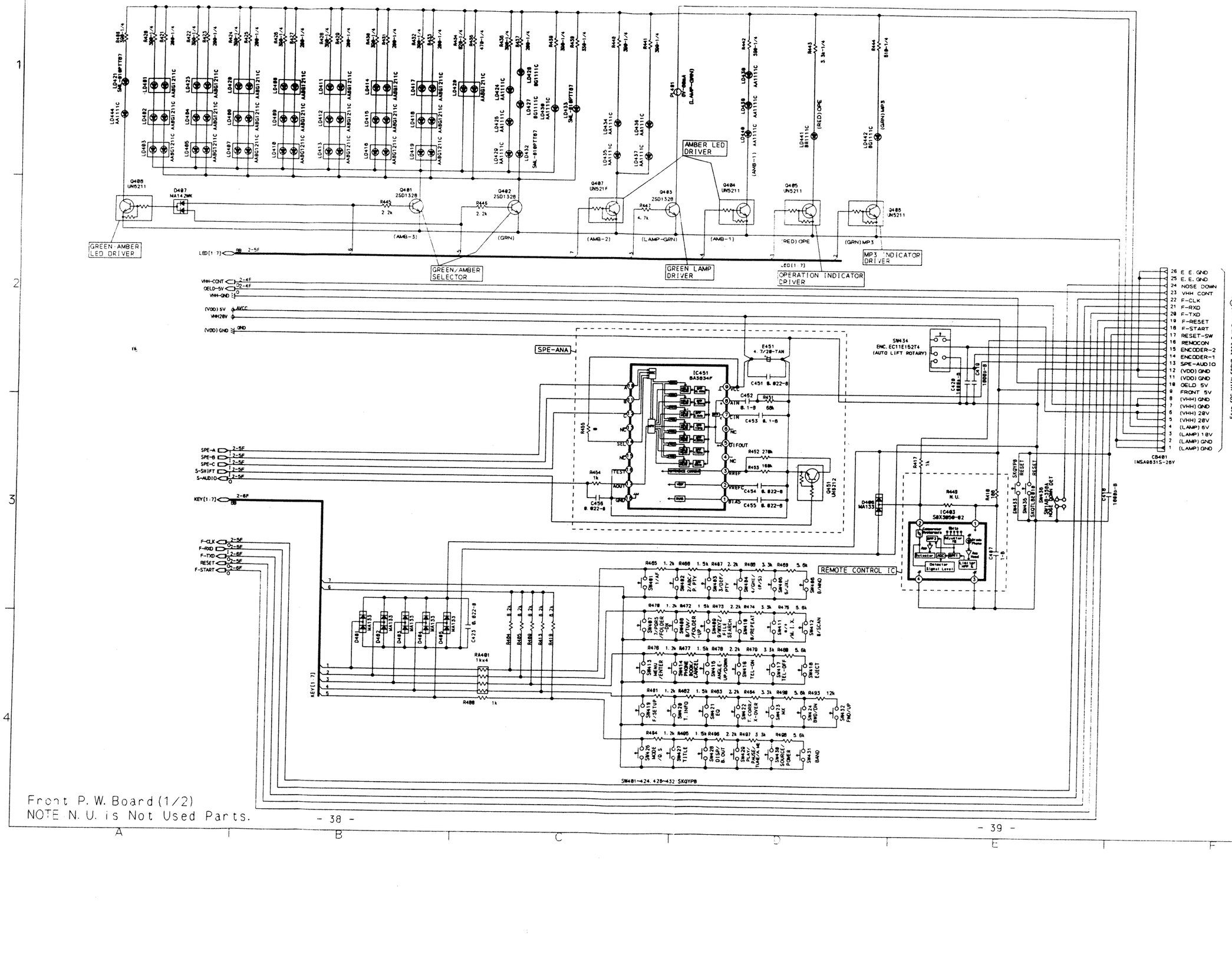
Schematic Diagram (5/10)

CDA-7899R



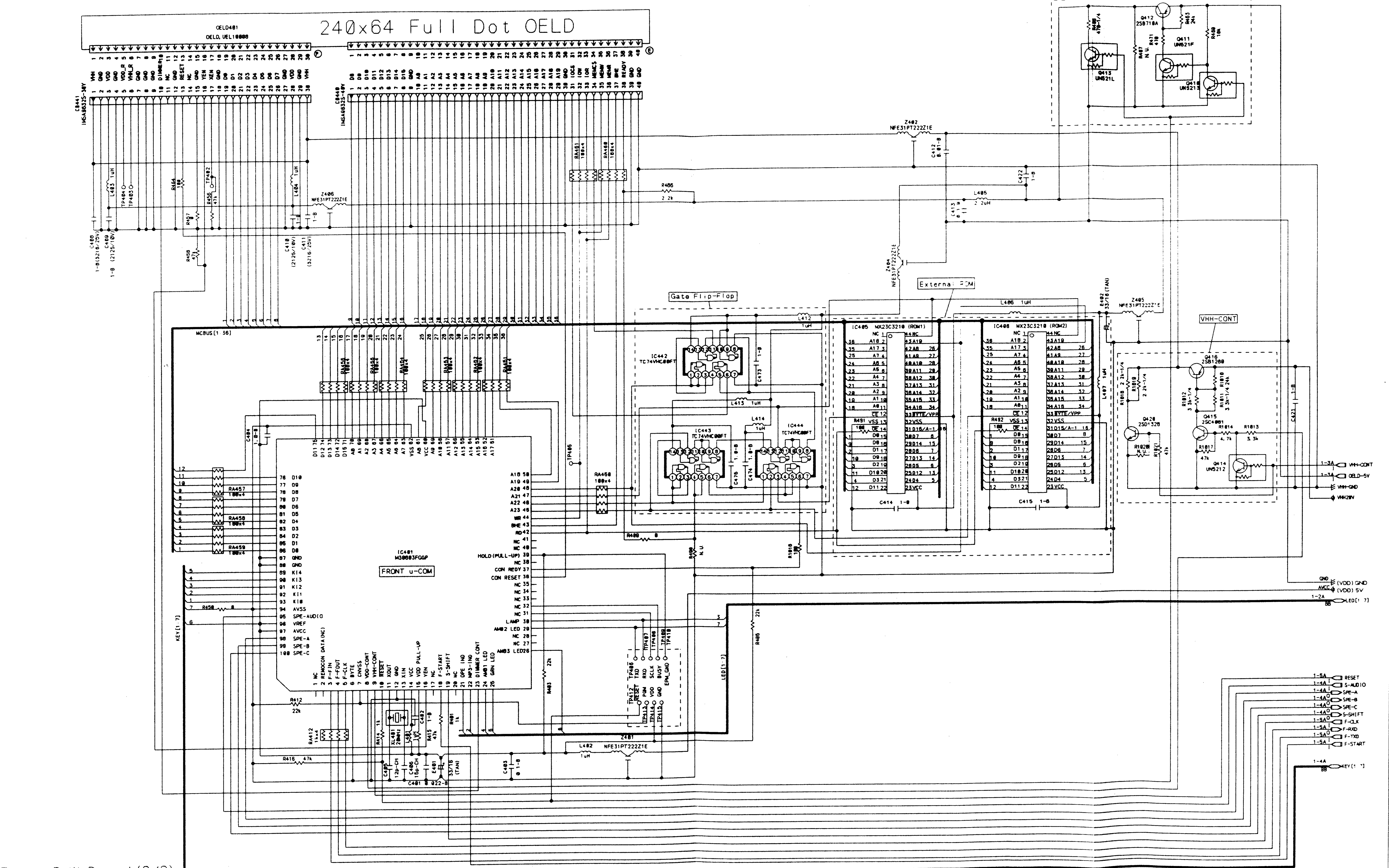
Main-2 P.W. Board (2/2)
NOTE N.U. is Not Used Parts.

Schematic Diagram (6/10)



Schematic Diagram (7/10)

CDA-7998R



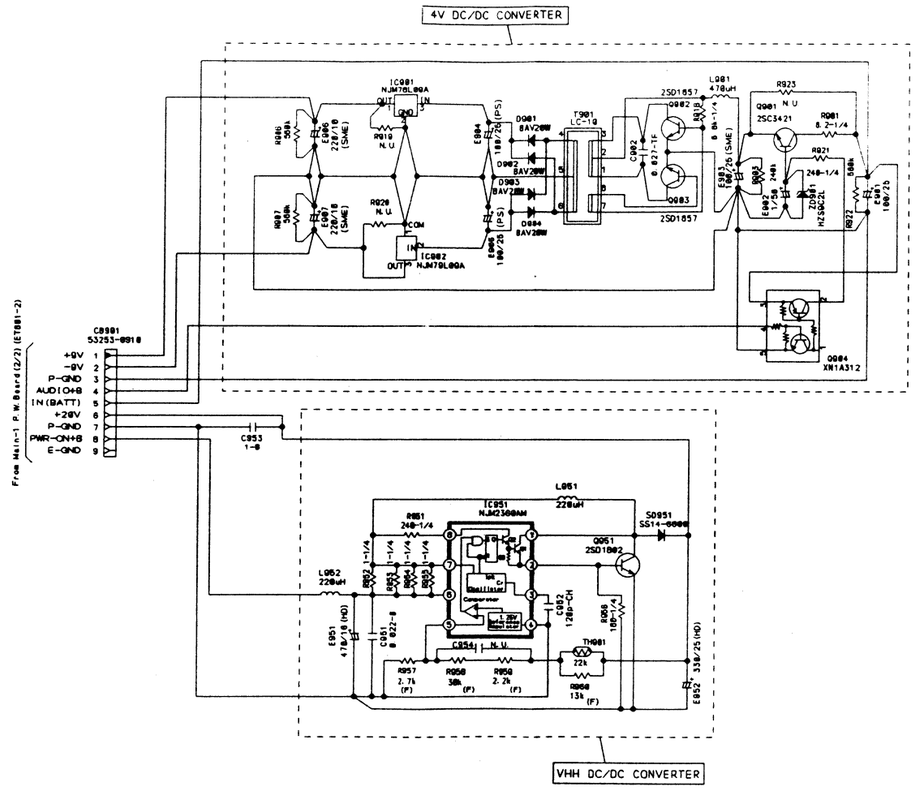
240x64 Full Dot OELD
OELD401
OELD, UEL10000
CB441
IMSA9632S-30Y
CB440
IMSA9632S-40Y
VDD CONT
Q412
2SB710A
Q411
UN521F
Q413
UN521L
Q416
UN5213
R463 24k
R460 10k
R471 470
R467 N.U.
Z402
NFE31PT222Z1E
C412 0.01-B
C422 1-B
L405 2.2uH
C413 0.1
R466 2.2k
RA461 100x4
RA460 100x4
Z406
NFE31PT222Z1E
L403 1uH
L404 1uH
TP404
TP403
TP402
R464 100
R456 47k
R457 0
R458 47k
C408 1-B(3216/25V)
C409 1-B (2125/10V)
C410 (2125/10V)
C411 (3216/25V)
Z404
NFE31PT222Z1E
Gate Flip-Flop
External ROM
IC442
TC74VHC00FT
IC443
TC74VHC00FT
IC444
TC74VHC00FT
L412 1uH
L413 1uH
L414 1uH
C473 1-B
C476 1.0-B
C474 1.0-B
IC405 MX23C3210 (ROM1)
IC406 MX23C3210 (ROM2)
L406 1uH
L407 1uH
R491 100
R492 100
C414 1-B
C415 1-B
E402 33/16 (TAN)
Z405
NFE31PT222Z1E
VHH-CONT
Q416
2SB1260
Q420
2SD1328
Q415
2SC4081
Q414
UN5212
R1018 2.2k-1/4
R1019 2.2k-1/4
R1010 24k
R1011 3.3k-1/4
R1012 3.3k-1/4
R1014 4.7k
R1013 3.3k
R1017 47k
R1020 N.U.
R1021 47k
C421 1-B
MCBUS[1 36]
RA456 100x4
RA455 100x4
RA454 100x4
RA453 100x4
RA452 100x4
RA451 100x4
RA457 100x4
RA458 100x4
RA459 100x4
C404 1.0-B
TP405
RA450 100x4
IC401
M30803FGGP
FRONT u-COM
KEY[1 7]
R450 0
R489 0
R490 N.U.
R1016 100
R485 22k
R483 22k
R412 22k
RA412 1kx4
R414 1k
XL401 20MHz
L401 1uH
R415 47k
C402 1-B
R481 1k
R416 47k
C405 12p-CH
C406 15p-CH
E401 33/16 (TAN)
C401 0.022-B
C403 0.1-B
L402 1uH
Z401
NFE31PT222Z1E
LED[1 7]
TP406 TXD
TP407 RXD
TP408 SCLK
TP409 BUSY
TP410 EPM_GND
TP412 RESET
TP413 PGM
TP414 VDD
TP415 GND
1-3A VHH-CONT
1-3A OELD-5V
VHH-GND
VHH20V
(VDD) GND
(VDD) 5V
1-2A LED[1 7]
1-5A RESET
1-4A S-AUDIO
1-4A SPE-A
1-4A SPE-B
1-4A SPE-C
1-4A S-SHIFT
1-5A F-CLK
1-5A F-RXD
1-5A F-TXD
1-5A F-START
1-4A KEY[1 7]

Front P. W. Board (2/2)

NOTE N. U. is Not Used Parts.

CDA-7998R

Schematic Diagram (8/10)



DC/DC P.W. Board

NOTE: N.U. is Not Used Parts.

Schematic Diagram (9/10)

HEAD AMP

LD DRIVER

SPINDLE MOTOR CURRENT CONTROL

SPINDLE MOTOR CONTROL

SPINDLE MOTOR DRIVER

SERVO PROCESSOR/DAC

SERVO DRIVER/ LOADING MOTOR DRIVER

3. 3V REGULATOR

BATT +5V SUPPLY CONTROL

DISC SENSOR +5V SUPPLY CONTROL

DISC SENSOR

for PLAYABLE IMPROVEMENT at PLAYING SCRATCH DISC

DP-Main P.W. Board
NOTE N.U. is Not Used Parts.

Terminal Voltage of IC/TR

(Main-1 P.W.Board)

IC001		
1	4.2/4.9	FM standard-IN/AM standard-IN
2	4.2/4.9	FM standard-IN/AM standard-IN
3	4.2/4.9	FM standard-IN/AM standard-IN
4	0	
5	4.2/4.9	FM standard-IN/AM standard-IN
6	4.2/4.9	FM standard-IN/AM standard-IN
7	4.2/4.9	FM standard-IN/AM standard-IN
8	8.25/0	TUNER/Others

IC502		
1	PS/0	MODE CHANGE/Others
2	PS/2.96	MODE CHANGE/Others
3	PS	CHG
4	0	
5	2.45	
6	PS/0.02	MODE CHANGE/Others
7	PS/4.86	MODE CHANGE/CHG
8	4.86	CHG

IC503	
1	0
2	0
3	0
4	0
5	PS
6	PS
7	0
8	5

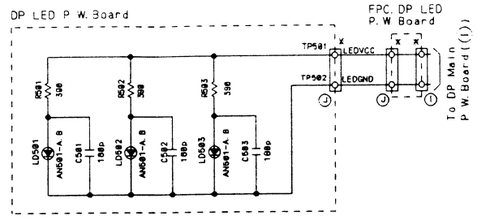
IC504		
1	0	
2	PS/4.85	CHG/NO CHG
3	PS/4.85	CHG/NO CHG
4	0	
5	PS/0	CHG/NO CHG
6	PS/0	CHG/NO CHG
7	NC	
8	4.85	

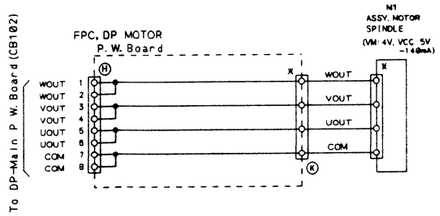
IC601		
1	PS/4.99	at Remote Control/Others
2	0	
3	0	
4	PS/0	at Remote Control/Others
5	4.94	

IC701				
1	0	11	0	
2	0	12	0	
3	0	13	2.4	
4	PS	14	4.77	
5	PS	15	0	
6	0	16	2.4	
7	4.86	17	2.4	
8	4.86	18	2.4	
9	PS	19	2.4	
10	PS	20	2.4	FM:98.1MHz/AM:999KHz

CDA-7998R

Schematic Diagram(10/10)





CDA-7998R

IC501					
1	NC		51	0/4.91	MUTE·ON/OFF
2	PS	at Remote Control	52	4.84/0	IN-INT·ON/OFF
3	PS		53	NC	
4	PS		54	NC	
5	PS		55	4.93	
6	0		56	NC	
7	0		57	NC	
8	NC		58	4.94/0.15	0-MUTE·ON/OFF
9	NC		59	PS	
10	4.93		60	4.94	
11	PS		61	PS	
12	0		62	0	
13	PS		63	NC	
14	4.94		64	4.94	
15	4.92		65	PS	
16	0/4.92	8V/14V	66	PS	
17	4.9/0	ACC·ON/OFF	67	PS	
18	4.92/0	BATT·ON/OFF	68	PS	
19	4.91/0.29	OPEN/CLOSE	69	4.93	
20	NC		70	PS	
21	NC		71	0	
22	0	BUZZER	72	PS	
23	PS		73	PS	
24	4.93		74	PS	
25	4.9/0	CD/Others	75	0/4.94	RESET·ON/OFF
26	NC		76	NC	
27	PS		77	NC	
28	PS		78	PS	
29	PS		79	PS	
30	PS		80	4.92	
31	NC		81	NC	
32	4.78/0	CD DISC-IN/Others	82	4.92	at NOSE CLOSED
33	PS		83	4.91	at NOSE HOUSED
34	PS		84	4.9	
35	NC		85	0/4.8	NOSE·OPEN/CLOSE
36	NC		86	4.8/0	NOSE·OPEN/CLOSE
37	NC		87	2.35	25℃
38	NC		88	0	
39	4.42/0	POWER·ON/OFF	89	0	
40	4.88/0	POWER·ON/OFF	90	0	
41	NC		91	0	
42	NC		92	0	
43	NC		93	0	
44	0/4.92	2WAY/3WAY	94	0	
45	0.23/4.92	VOL. ENCODER	95	0.4~4.6	LPS
46	0.23/4.94	rotation	96	4.94	
47	NC		97	4.94	
48	NC		98	0	
49	4.89/0	POWER·ON/OFF	99	NC	
50	NC		100	0	

IC702					
1	0		51	0	
2	NC		52	4.9	
3	NC		53	4.9	
4	0		54	4.9	
5	NC		55	NC	
6	NC		56	NC	
7	NC		57	NC	
8	NC		58	NC	
9	4.94		59	NC	
10	PS		60	NC	
11	PS		61	NC	
12	0		62	NC	
13	NC		63	NC	
14	0		64	NC	
15	4.93		65	NC	
16	4.92		66	NC	
17	4.66		67	NC	
18	NC		68	NC	
19	PS		69	NC	
20	NC		70	NC	
21	NC		71	NC	
22	NC		72	0	
23	4.94		73	NC	
24	4.94		74	NC	
25	4.2/4.9	FM standard-IN/ AM standard-IN	75	NC	
26	0		76	NC	
27	PS		77	NC	
28	0/3.6	TUNER·SEEK/STOP	78	NC	
29	4.2/0.1	at receiving FM standard-IN/Others	79	NC	
30	3		80	NC	
31	0		81	4.94	
32	0		82	NC	
33	0		83	NC	
34	NC		84	NC	
35	NC		85	NC	
36	4.94		86	NC	
37	PS		87	NC	
38	PS		88	NC	
39	PS		89	NC	
40	PS		90	NC	
41	PS		91	NC	
42	NC		92	0	
43	NC		93	4.85	
44	NC		94	0	
45	NC		95	PS	
46	NC		96	PS	
47	NC		97	PS	
48	4.9		98	PS	
49	NC		99	NC	
50	NC		100	0/8.22	FM/AM

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IC810					
1	NC		14	NC	
2	7.5/0.25	OPEN/CLOSE	15	0.16/5.5	OPEN/CLOSE
3	NC		16	NC	
4	5.2/0.29	MOTOR·ON/OFF	17	NC	
5	NC		18	NC	
6	3.8/0	OPEN/CLOSE	19	0	
7	0		20	0	
8	0/3.8	OPEN/CLOSE	21	NC	
9	NC		22	NC	
10	12.39/12.37		23	NC	
11	12.39/12.38		24	5.5/0.16	OPEN/CLOSE
12	NC		25	NC	
13	7.5				

IC861		
1	0/4.93	RESET·ON/OFF
2	4.9	
3	0	
4	NC	
5	0	

IC880					
1	0		14	2.86/0	BATT·ON/OFF
2	0		15	2.83	
3	4.97		16	NC	
4	4.5		17	13.5	
5	8.31/0	TUNER/Others	18	4.91/0	usually/RESET
6	4.95/4.96		19	6.97/0	CD,MP3/Others
7	8.5		20	0	
8	0		21	3.26	
9	4.97		22	PS	
10	2.1/2.09		23	14.28	
11	4.96		24	PS	
12	NC		25	14.28	
13	NC				

REF. No.	1	2	3	4	5	NOTE
Q501	NC	4.9/0.3	4.91	4.9/0	0	CD,MP3/Others
Q505	NC	14/-8.5	14.2	3.14/0	0	MUTE·ON/OFF
Q510	NC	5.5	5.65	4.88	0	
Q801	NC	4.98	5	2.63	0	
Q812	NC	14.3	14.35	4.7	0	
Q830	NC	4.95	4.97	6.24	0	
Q831	NC	4.87	4.95	4.95	0	

REF. No.	E	C	B	NOTE
Q001	8.2	0/8.2	8.16/7.5	FM/AM
Q002	8.2	8.17/0	0/8.2	FM/AM
Q004	4.9	4.5/0	0/4.9	TUNER/Others
Q006	0	4.9/0	0/8.2	TUNER/Others
Q503	0	0.47/4.56	4.56/0	MUTE·OFF/ON

REF. No.	E	C	B	NOTE
Q507	4.96	4.84	4.22	
Q508	0.07	0.12	4.88	
Q509	5.5	14.4	4.92	
Q511	4.96	2.01	4.94	
Q512	4.83	2.01	4.83	
Q513	0	2.91	0	
Q603	4.9	0	4.9	
Q610	4.8	4.82/0	3/4.82	IN-INT·ON/OFF
Q699	0	4.7	0	
Q701	0	2.4	0	
Q810	12.39	14.4	12.88	
Q820	10.24	14.1	10.82	
Q821	10.24	14.1	10.82	
Q870	14.4	14.4	13.7	
Q871	0	0.13	4.07	
Q872	14.3	0	14.3	
Q873	14.33	14.3/0	13.6/14.3	TUNER/Others
Q874	0	0.17/14.3	2.62/0.15	TUNER/Others
Q875	0	14.3	0	

(Main-2 P.W.Board)

IC101					
1	0		33	4.47/0.18	DISC IN/NO DISC
2	PS/4.7	MP3/Others	34	4.47/0.18	DISC IN/NO DISC
3	PS/4.7	MP3/Others	35	4.36/0	DISC IN/NO DISC
4	4.92		36	0.17/4.36	DISC IN/NO DISC
5	0		37	0	
6	0		38	0	
7	0		39	0	
8	4.5/0	CD,MP3/Others	40	4.7	
9	0		41	4.7/0	TRACK UP/CD PLAY
10	4.92		42	4.7/0.15	TRACK UP/CD PLAY
11	PS/0	CD,MP3/Others	43	0	
12	PS/0	CD,MP3/Others	44	PS/0.12	CD,MP3/Others
13	4.93/0.08	CD,MP3/Others	45	0.12	
14	PS/0	DISC READ/Others	46	PS/0.12	CD,MP3/Others
15	4.95/0	DISC PLAY/Others	47	0	
16	0		48	0	
17	0		49	4.46	
18	4.89		50	4.84/0	CD,MP3/Others
19	4.93		51	PS/0	CD,MP3/Others
20	0		52	PS/0	CD,MP3/Others
21	PS/0	CD,MP3/Others	53	PS/0	CD,MP3/Others
22	PS/0	CD,MP3/Others	54	PS/0	CD,MP3/Others
23	0		55	PS/0	CD,MP3/Others
24	0		56	PS/0	CD,MP3/Others
25	0		57	3.3	
26	0		58	0.14/3.3	CD,MP3/Others
27	0		59	2.87/0	CD,MP3/Others
28	0		60	0	
29	0		61	0	
30	0		62	0	
31	4.96		63	0	
32	4.97		64	2.91/0	CD,MP3/Others

IC102					
1	3.3		33	PS/3.3/0	MP3/CD/Others
2	3.3		34	PS/3.3/0	MP3/CD/Others
3	PS/3.3	MP3/Others	35	3.2	
4	PS/3.3	MP3/Others	36	PS/3.3/0	MP3/CD/Others
5	4.89		37	PS/3.3/0	MP3/CD/Others
6	4.89		38	PS/3.3/0	MP3/CD/Others
7	PS/3.3	MP3/Others	39	PS/0.38/0	MP3/CD/Others
8	3.2		40	0	
9	PS/0	CD, MP3/Others	41	PS/3.3	MP3/Others
10	PS/3.3/0	MP3/CD/Others	42	PS/3.3	MP3/Others
11	PS/3.3/0	MP3/CD/Others	43	PS/3.3	MP3/Others
12	PS/0.01	CD, MP3/Others	44	PS/3.3	MP3/Others
13	PS/0.08	CD, MP3/Others	45	PS/3.3	MP3/Others
14	PS/0.08	CD, MP3/Others	46	PS/3.3	MP3/Others
15	PS/3.3	MP3/Others	47	PS/3.3	MP3/Others
16	PS/3.3	MP3/Others	48	0	
17	PS/3.3	MP3/Others	49	PS/3.3	MP3/Others
18	2.5		50	PS/3.3	MP3/Others
19	0.11/3.3	CD, MP3/Others	51	PS/3.3	MP3/Others
20	0		52	2.5	
21	0		53	PS/3.3	MP3/Others
22	1.33/0	CD, MP3/Others	54	PS/0.08	MP3/Others
23	AUDIO(1.3)/0	Lch-CD, MP3/Others	55	PS/3.3/0	MP3/CD/Others
24	2.58	MP3, Others	56	0	
25	2.58	MP3, Others	57	1.85/0	CD, MP3/Others
26	AUDIO(1.3)/0	Rch-CD, MP3/Others	58	1.82/0	CD, MP3/Others
27	1.33/0	CD, MP3/Others	59	2.5	
28	0		60	PS/3.3	CD, MP3/Others
29	0		61	2.5	
30	3.43		62	PS/2.37	CD, MP3/Others
31	PS/3.3/0	MP3/CD/Others	63	PS/2.5	CD, MP3/Others
32	PS/3.3/0	MP3/CD/Others	64	0	

IC103					
1	PS/3.3/0	MP3/CD/Others	17	PS/3.3/0	MP3/CD/Others
2	PS/3.3/0	MP3/CD/Others	18	PS/3.3/0	MP3/CD/Others
3	PS/3.3/0	MP3/CD/Others	19	PS/3.3/0	MP3/CD/Others
4	PS/3.3	MP3/Others	20	PS/3.3/0	MP3/CD/Others
5	PS/3.45	MP3/Others	21	PS/3.3	MP3/Others
6	3.3		22	PS/3.3	MP3/Others
7	PS/3.3	MP3/Others	23	PS/3.3	MP3/Others
8	3.3		24	0	
9	NC		25	PS/3.3	MP3/Others
10	PS/3.3	MP3/Others	26	PS/3.3	MP3/Others
11	PS/3.3	MP3/Others	27	PS/3.3	MP3/Others
12	PS/3.3/0	MP3/CD/Others	28	PS/0.08	MP3/Others
13	PS/3.3/0	MP3/CD/Others	29	PS/3.3/0	MP3/CD/Others
14	PS/3.3/0	MP3/CD/Others	30	PS/3.37	MP3/Others
15	PS/3.3	MP3/Others	31	PS/3.3/0	MP3/CD/Others
16	PS/3.3/0	MP3/CD/Others	32	PS/3.37	MP3/Others

IC104	
1	0
2	3.34
3	2.55
4	NC
5	3.34

IC105	
1	0
2	4.99
3	3.34

IC106	
1	0
2	3.34
3	2.5
4	NC
5	3.34

IC107		
1	4.47/0.17	DISC IN/NO DISC
2	4.47/0.17	DISC IN/NO DISC
3	0	
4	0/4.88	DISC IN/NO DISC
5	4.9	

IC201					
1	AUDIO(4.26)		23	NC	
2	AUDIO(4.26)		24	NC	
3	AUDIO(4.26)		25	AUDIO(4.3)	
4	AUDIO(4.26)		26	AUDIO(4.3)	
5	AUDIO(4.26)		27	AUDIO(4.3)	
6	AUDIO(4.26)		28	AUDIO(4.3)	
7	NC		29	AUDIO(4.3)	
8	NC		30	AUDIO(4.3)	
9	NC		31	AUDIO(4.3)	
10	NC		32	AUDIO(4.3)	
11	4.24		33	AUDIO(4.3)	
12	4.25		34	AUDIO(4.3)	
13	4.26	CD	35	AUDIO(4.3)	
14	1.07/1.83/0.49	MW/FM/CD, MP3	36	AUDIO(4.3)	
15	0		37	AUDIO(4.3)	
16	4.17	CD	38	AUDIO(4.3)	
17	NC		39	4.3	CREF
18	3.62		40	4.3	MUX
19	0		41	NC	
20	PS		42	NC	
21	PS		43	NC	
22	8.46		44	NC	

IC203	
1	4.22
2	4.22
3	4.22
4	0
5	4.23
6	4.23
7	4.23
8	8.42

IC204~206	
1	4.22
2	4.22
3	4.22
4	0
5	4.22
6	4.22
7	4.22
8	8.42

CDA-7998R

IC202					
1	0		51	3.3	
2	0		52	0	
3	0		53	1.62	
4	0		54	AUDIO(1.69)	SUB-L
5	0		55	3.3	
6	0		56	AUDIO(1.69)	SUB-R
7	0		57	0	
8	3.26		58	1.62	
9	0		59	0	
10	0		60	4.8	
11	0		61	NC	
12	0		62	0	
13	0		63	PS/4.8	MODE CHANGE/Others
14	0		64	NC	
15	0		65	4.9	
16	0		66	PS/4.8	MODE CHANGE/Others
17	PS/0	CD,MP3/Others	67	PS/0.09	MODE CHANGE/Others
18	0		68	3.21	
19	3.24		69	3.21	
20	0		70	0	
21	0		71	NC	
22	3.22		72	NC	
23	1.62		73	NC	
24	0		74	NC	
25	AUDIO(3.32)	F-L	75	0	
26	3.3		76	0	
27	AUDIO(1.71)	F-R	77	0	
28	1.62		78	PS/0	CD,MP3/Others
29	0		79	0	
30	3.31		80	0	
31	3.31		81	NC	
32	0		82	0	
33	1.6		83	3.21	
34	AUDIO(1.7)	L-IN	84	3.2	
35	0		85	0.09	
36	3.31		86	NC	
37	1.62		87	NC	
38	AUDIO(1.7)	R-L	88	0	
39	3.3		89	PS/0	CD,MP3/Others
40	PS		90	PS/0	CD,MP3/Others
41	PS		91	0	
42	0		92	0	
43	AUDIO(1.69)	R-R	93	0	
44	1.62		94	0	
45	3.31		95	0	
46	0		96	0	
47	AUDIO(1.61)	R-IN	97	0	
48	1.6		98	0	
49	0		99	0	
50	3.3		100	3.26	

IC351~353	
1	0
2	0
3	0
4	-8.91
5	0
6	0
7	0
8	9

REF. No.	E	C	B	NOTE
Q101	0.14	4.98	0.23	
Q202	0	0	4.5	
Q203	0	3.6	0	
Q351	0.1	0.1	0/13.5	MUTE·ON/OFF
Q352	0.1	0.1	0/13.51	MUTE·ON/OFF
Q353	0.1	0.1	0/13.51	MUTE·ON/OFF
Q354	0.09	0.09	0/13.51	MUTE·ON/OFF
Q355	0.09	0.09	0/13.51	MUTE·ON/OFF
Q356	0.09	0.09	0/13.51	MUTE·ON/OFF
Q671	0.06	14.32	0.08	

REF. No.	1	2	3	4	5	NOTE
Q102	NC	4.97	4.99	4.34	0	
Q661	NC	4.7/0	4.9	7/0	0	CD/Others

(Front P.W.Board)

IC401

1	NC		51	PS	
2	NC		52	PS	
3	PS		53	PS	
4	PS		54	PS	
5	PS		55	PS	
6	0		56	PS	
7	0		57	PS	
8	0		58	PS	
9	4.8/0	POWER-ON/OFF	59	PS	
10	4.87/4.91		60	4.86	
11	PS		61	PS	
12	0		62	0	
13	PS		63	PS	
14	4.93		64	PS	
15	4.84		65	PS	
16	PS		66	PS	
17	NC		67	PS	
18	PS		68	PS	
19	PS		69	PS	
20	NC		70	PS	
21	4.8/0	POWER-ON/OFF	71	PS	
22	4.82/0.12	MP3-ON/OFF	72	PS	
23	0.12		73	PS	
24	4.81		74	PS	
25	4.73/0	GREEN/AMBER	75	PS	
26	0/4.73	GREEN/AMBER	76	PS	
27	NC		77	PS	
28	NC		78	PS	
29	0/4.77	GREEN/AMBER	79	PS	
30	4.78/0	GREEN/AMBER	80	PS	
31	NC		81	PS	
32	NC		82	PS	
33	NC		83	PS	
34	NC		84	PS	
35	NC		85	PS	
36	0.11		86	PS	
37	PS		87	0	
38	NC		88	0	
39	4.84		89	4.84	KEY MATRIX
40	NC		90	4.84	KEY MATRIX
41	NC		91	4.84	KEY MATRIX
42	PS		92	4.84	KEY MATRIX
43	PS		93	4.84	KEY MATRIX
44	PS		94	0	
45	PS/4.84	at P-ON/Others	95	0	
46	PS		96	4.85	
47	PS		97	4.85	
48	PS		98	PS	
49	PS		99	PS	
50	PS		100	PS	

IC403

1	4.74	
2	4.53/PS	Others/Remote Control
3	0	
4	0	

IC405

1	NC	12	PS	23	4.86	34	PS
2	PS	13	0	24	PS	35	PS
3	PS	14	PS	25	PS	36	PS
4	PS	15	PS	26	PS	37	PS
5	PS	16	PS	27	PS	38	PS
6	PS	17	PS	28	PS	39	PS
7	PS	18	PS	29	PS	40	PS
8	PS	19	PS	30	PS	41	PS
9	PS	20	PS	31	PS	42	PS
10	PS	21	PS	32	0	43	PS
11	PS	22	PS	33	4.86	44	PS

IC406

1	NC	16	PS	31	PS
2	PS	17	PS	32	0
3	PS	18	PS	33	4.86
4	PS	19	PS	34	PS
5	PS	20	PS	35	PS
6	PS	21	PS	36	PS
7	PS	22	PS	37	PS
8	PS	23	4.86	38	PS
9	PS	24	PS	39	PS
10	PS	25	PS	40	PS
11	PS	26	PS	41	PS
12	PS/4.8 at P-ON/Others	27	PS	42	PS
13	0	28	PS	43	PS
14	PS	29	PS	44	PS
15	PS	30	PS		

IC442

1	PS
2	PS
3	PS
4	PS
5	PS
6	PS
7	0
8	0
9	4.8
10	4.8
11	PS
12	PS
13	PS
14	4.8

IC443

1	PS	
2	PS	
3	PS	
4	PS	
5	PS	
6	PS	
7	0	
8	PS	
9	PS	
10	PS	
11	PS	
12	PS/4.83	at P-ON/Others
13	PS	
14	4.8	

IC444		
1	PS	
2	PS/4.83	at P-ON/Others
3	PS	
4	PS	
5	PS	
6	PS	
7	0	
8	PS	
9	PS	
10	PS	
11	PS	
12	PS	
13	PS	
14	4.8	

IC451			
1	2.42	10	PS
2	1.52	11	PS
3	2.5	12	PS
4	NC	13	NC
5	NC	14	4.8
6	NC	15	NC
7	2.5	16	0
8	AUDIO(2.5)	17	PS
9	4.8	18	0

REF. No.	E	C	B	NOTE
Q401	0.11/0.17	0.16/8.06	0.82/0.1	AMBER/GREEN
Q402	0	8.06/14	0/0.8	AMBER/GREEN
Q403	0	9.77/0.13	0/0.77	AMBER/GREEN
Q404	0.18	0.23	4.8	
Q405	0.18/0	0.26/0	4.8/0	POWER-ON/OFF
Q406	0.2/0.18	0.2/7.61	4.81/0.11	MP3/Others
Q407	0.14/0.17	0.23/6.8	4.77/0.11	AMBER/GREEN
Q408	0	0.1	4.1	
Q410	0.09	2.05	0.1	
Q411	0.08	0.16	2.05	
Q412	4.96	4.91	4.21	
Q413	0.1	4.91	0.1	
Q414	0	3.16	0.08	
Q415	0	0.1	0.74	
Q416	19.91/0	19.9/0.3	19.2/0	POWER-ON/OFF
Q420	0	19.83	0	
Q451	0.09	PS	PS	

(DC/DC P.W.Board)

IC901	
1	9
2	0
3	13.2

IC902	
1	0
2	-13.3
3	-8.92

IC951		
1	PS	
2	PS	
3	PS	
4	0	
5	12.9	25℃
6	14.4	
7	14.4	
8	PS	

REF. No.	E	C	B
Q901	9.3	13.8	9.9
Q902	0	PS	PS
Q903	0	PS	PS
Q951	0	PS	PS

REF. No.	1	2	3	4	5
Q904	NC	14.4	14.4	8.4	0

(D-OUT P.W.Board)

IC131		
1	0	CD-PLAY
2	2.1	CD-PLAY
3	4.77	CD-PLAY
4	PS	CD-PLAY
5	NC	
6	NC	

[Measuring Conditions]
- Power Supply Voltage :DC14.4V
- Measuring Meter :Digital Multi Meter
- Measuring Point Reference :Between GND
- Measuring Conditions :FM:98.1MHz
  MW:999KHz
  LW:216KHz
  CD-DA:at Playing TEST-DISC(TCD782)
  MP3:at Playing TEST-DISC(SCD-4419 (CD-R))

(DP-Main P.W.Board(DP23T020))

IC101			
1	3.32	13	2.73
2	1.62	14	1.66
3	1.62	15	1.65
4	1.7	16	1.67
5	1.7	17	2.93
6	0.19	18	1.66
7	2.63	19	1.25
8	2.06	20	0.23
9	2.63	21	2.38
10	1.34	22	1.26
11	1.63	23	1.66
12	2.77	24	0.01

IC102							
1	-	17	1.67	33	1.63	49	0.01
2	-	18	1.67	34	1.67	50	1.64
3	-	19	1.57	35	1.66	51	3.32
4	-	20	1.67	36	0.13	52	1.64
5	0.01	21	1.06	37	1.63	53	1.64
6	3.32	22	0.01	38	2.06	54	0.01
7	0.01	23	1.59	39	3.32	55	5
8	4.99	24	1.66	40	1.55	56	0.01
9	1.81	25	3.32	41	1.77	57	-
10	4.99	26	1.66	42	0	58	-
11	4.99	27	1.66	43	3.32	59	-
12	1.66	28	2.95	44	0.01	60	-
13	1.31	29	1.65	45	0.01	61	-
14	4.99	30	2.77	46	-	62	-
15	3.32	31	1.63	47	-	63	5
16	1.66	32	1.66	48	3.32	64	5

IC103			
1	0.01	15	3.41
2	1.66	16	3.15
3	1.66	17	3.28
4	1.67	18	3.28
5	1.67	19	0
6	1.66	20	1.66
7	1.57	21	4.99
8	6.95	22	1.67
9	0.03	23	1.66
10	0.03	24	1.67
11	3.58	25	1.69
12	2.94	26	1.66
13	3.13	27	1.67
14	3.43	28	0.01

IC104			
1	0.31	11	3.45
2	0	12	1.75
3	0.31	13	1.66
4	0.31	14	2.76
5	0.29	15	0.07
6	0.3	16	6.3
7	0.39	17	0.55
8	1.82	18	0
9	1.65	19	0.28
10	0.01	20	0.29

IC105	
1	5.54
2	0.75
3	1.75
4	0
5	0
5	2.37
6	1.75
7	5.54
8	5.9

IC801	
1	4.96
2	5.02
3	0
4	3.32
5	NC

	1	2	3	4	5
Q801	NC	4.93	5.01	4.98	0
Q802	NC	4.48	5.02	5.04	0

	E	C	B
Q101	3.29	2.03	2.63
Q102	5.88	0.52	5.62
Q103	3.32	1.65	4.92

[Measuring Conditions]
·Power Supply Voltage :DC14.4V
·Measuring Meter :Digital Multi Meter
·Measuring Point Reference :Between GND
·Measuring Conditions :CD-DA:at Playing TEST-DISC (TCD782)

Description of IC Terminal

TMP87PM48U : IC101

No.	Symbol	I/O	Terminal Description
1	VSS	–	GND terminal.
2	XOUT	–	High-frequency OSC connect terminal. (8MHz)
3	XIN		
4	RST	I	RESET signal input terminal.
5	NC(GND)	–	GND terminal.
6			
7	TEST	–	TEST terminal. (GND connect)
8	STBY	I	STBY signal input terminal.
9	CD-SBSY(PULL-DOWN)	–	Pull-down connect terminal.
10	MP3-REQ	I	REQ signal input terminal.
11	FIN	I	FIN signal input terminal.
12	FOUT	O	FOUT signal output terminal.
13	CDVCONT	O	Power supply control terminal for CD Servo system.
14	QDFLAG	O	CD-TEXT data reading sync. signal output terminal.
15	DR-MUTE	O	DR-MUTE control output terminal.
16	NC(PULL-DOWN)	–	Pull-down connect terminal.
17	NC(GND)	–	GND terminal.
18	I2C-SCL	O	IIC BUS SCL output terminal.
19	I2C-SDA	I/O	IIC BUS SDA input/output terminal.
20	NC(GND)	–	GND terminal.
21	RX(URATIN)	I	UART signal input terminal.
22	TX(UARTOUT)	O	UART signal output terminal.
23	NC(GND)	–	GND terminal.
24			
25	LOOM+	O	Loading Motor forward driving output terminal.
26	LOOM-	O	Loading Motor backward driving output terminal.
27	NC(GND)	–	GND terminal.
↓			
29			
30	VASS	–	Analog GND terminal of A/D converter.
31	VAREF	–	Analog power supply terminal of A/D converter.
32	VDD	–	Power supply terminal.
33	SW-A	I	SW-A signal input terminal.
34	SW-B	I	SW-B signal input terminal.
35	SW-C	I	SW-C signal input terminal.
36	SW-D	I	SW-D signal input terminal.
37	NC(GND)	–	GND terminal.
↓			
39			
40	$\overline{\text{TESTMODE}}$	I	TEST Mode set up input terminal.
41	ZMUTEIN	I	Z-MUTE input terminal.
42	MUTE-O	O	MUTE request terminal.
43	NC(GND)	–	GND connect terminal.
44	CK	O	Servo status clock terminal.
45	DT	O	Servo status data terminal.
46	LT	O	Servo status latch terminal.
47	NC(GND)	–	GND terminal.
48			

No.	Symbol	I/O	Terminal Description
49	LMTSW	I	Limit SW input terminal.
50	CD-RST	O	RESET control output terminal.
51	$\overline{CCE}$	O	CCE control output terminal.
52	$\overline{BUCK}$	O	BUCK control output terminal.
53	BUS3	I/O	BUS-3 input/output terminal.
54	BUS2	I/O	BUS-2 input/output terminal.
55	BUS1	I/O	BUS-1 input/output terminal.
56	BUS0	I/O	BUS-0 input/output terminal.
57	MP3-RST	O	RESET control output terminal.
58	MP3-STABY	O	STAND-BY control output terminal.
59	$\overline{SPL-STBY}$	O	STBY control output terminal to Sensorless Driver-IC.
60	NC(PULL-DOWN)	-	Pull-down connect terminal.
61			
62			
63			
64	GVSW	O	CD-DA/RW detect output terminal. (H:CD-DA, L:RW)

M30803FGGP : IC401

No.	Symbol	I/O	Terminal Description
1	NC	-	No connect terminal.
2	REMOCON DATA(NC)		
3	F-FIN	O	Data-IN signal output terminal to Main μ-COM.
4	F-FOUT	I	Data-OUT signal input terminal from Main μ-COM.
5	F-CLK	I	Clock-OUT signal input terminal from Main μ-COM.
6	BYTE	-	GND terminal.
7	CNVSS	-	Pull-down connect terminal.
8	VDD-CONT	O	VDD power control signal output terminal of OELD.
9	VHH-CONT	O	VHH power control signal output terminal of OELD.
10	$\overline{RESET}$	I	System RESET input terminal.
11	XOUT	O	Crystal connect terminal for main system clock OSC. (20MHz)
12	GND	-	GND terminal.
13	XIN	I	Crystal connect terminal for main system clock OSC. (20MHz)
14	VCC	-	Power supply terminal.
15	VDD PULL-UP	-	Pull-up connect terminal.
16	YEN	I	Perpendicular sync. signal input terminal from OELD.
17	NC	-	No connect terminal.
18	F-START	I	Data start signal input terminal from Main μ-COM.
19	S-SHIFT	O	Center frequency shift control signal terminal to SPE-ANA IC.
20	NC	-	No connect terminal.
21	OPE IND	O	LED control signal output terminal for operation.
22	MP3-IND	O	LED control signal output terminal for MP-3.
23	DIMMER CONT	O	DIMMER control signal output terminal.
24	AMB1 LED	O	AMBER LED control signal output terminal for audio.
25	GRN LED	O	GREEN LED control signal output terminal for preset.
26	AMB3 LED	O	AMBER LED control signal output terminal for preset.
27	NC	-	No connect terminal.
28			
29	AMB2 LED	O	AMBER LED control signal output terminal for lighting knob.
30	LAMP	O	GREEN LAMP control signal output terminal for lighting knob.
31	NC	-	No connect terminal.
32			
33			
34			
35			

No.	Symbol	I/O	Terminal Description
36	CON RESET	O	RESET signal output terminal for OELD.
37	CON REDY	I	Ready-IN signal input terminal from OELD.
38	NC	-	No connect terminal.
39	HOLD(PULL-UP)	-	Pull-up connect terminal.
40	NC	-	No connect terminal.
41			
42	RD	O	Output terminal for μ-COM outer control.
43	BHE		
44	WR		
45	A23	O	Address BUS output terminal for outer ROM/OELD.
46	A22		
47	A21		
48	A20		
49	A19		
50	A18		
51	A17		
52	A16		
53	A15		
54	A14		
55	A13	O	Address BUS output terminal for outer ROM/OELD.
56	A12		
57	A11		
58	A10		
59	A9		
60	VCC	-	Power supply terminal.
61	A8	O	Address BUS output terminal for outer ROM/OELD.
62	VSS	-	GND terminal.
63	A7	O	Address BUS output terminal for outer ROM/OELD.
64	A6		
65	A5		
66	A4	O	Address BUS output terminal for outer ROM/OELD.
67	A3		
68	A2		
69	A1		
70	A0		
71	D15	I/O	IN/OUT-data signal input/output terminal for outer ROM/OELD.
72	D14		
73	D13		
74	D12		
75	D11		
76	D10		
77	D9		
78	D8		
79	D7		
80	D6		
81	D5		
82	D4		
83	D3		
84	D2		
85	D1		
86	D0		

No.	Symbol	I/O	Terminal Description
87	GND	-	GND terminal.
88			
89	KI4	I	Key-IN condition detect signal input terminal.
90	KI3		
91	KI2		
92	KI1		
93	KI0		
94	AVSS	-	GND terminal of A/D converter.
95	SPE-AUDIO	I	A/D data input terminal from SPE-ANA IC.
96	VREF	-	Standard voltage input terminal of A/D converter.
97	AVCC	-	Power supply input terminal of A/D converter.
98	SPE-A	O	Frequency selector signal output terminal to SPE-ANA IC.
99	SPE-B		
100	SPE-C		

M30624FGGP : IC501

No.	Symbol	I/O	Terminal Description
1	NC	-	No connect terminal.
2	REMOCON DATA	I	Remote control data input terminal.
3	F-FOUT	O	Data-OUT signal output terminal to Front μ-COM.
4	F-FIN	I	Data-IN signal input terminal to Front μ-COM.
5	F-CLK	O	Data clock signal output terminal to Front μ-COM.
6	BYTE	-	GND terminal.
7	CNVSS	-	Pull-down connect terminal.
8	NC	-	No connect terminal.
9			
10	$\overline{\text{RESET}}$	I	System RESET input terminal.
11	XOUT	O	Crystal connect terminal for main system clock OSC. (16MHz)
12	VSS	-	GND terminal.
13	XIN	I	Crystal connect terminal for main system clock OSC. (16MHz)
14	VCC	-	Power supply terminal.
15	NMI(PULL-UP)	-	Pull-up connect terminal.
16	8V-DET	I	8V detect signal input terminal.
17	ACC-DET	I	ACC detect signal input terminal.
18	BATT-DET	I	BATT detect signal input terminal.
19	DOWN SW	I	Horizontal position detect signal input terminal of active NOSE.
20	NC	-	No connect terminal.
21			
22	BUZZER	O	BUZZER signal output terminal.
23	BUS IN	I	Serial data signal input terminal from Ai-NET BUS.
24	$\overline{\text{CD RST}}$	O	System RESET signal output terminal to CD μ-COM.
25	CD STBY	O	Active stand-by request signal output terminal to CD μ-COM.
26	NC	-	No connect terminal.
27	BUS-IN	I	Serial data signal input terminal from Ai-NET BUS.
28	BUS-OUT	O	Serial data signal output terminal to Ai-NET BUS.
29	CD TXD	O	Command data output terminal to CD μ-COM.
30	CD RXD	I	Status data input terminal from CD μ-COM.
31	NC	-	No connect terminal.
32	CD IN-SW	I	DISC insert detect SW signal input terminal.
33	RDS TXD	O	BUS data-OUT signal output terminal to RDS μ-COM.

No.	Symbol	I/O	Terminal Description
34	RDS RXD	I	BUS data-IN signal input terminal from RDS μ-COM.
35	NC	-	No connect terminal.
36			
37			
38			
39	VHH CONT	O	Power supply control signal output terminal for OELD.
40	NOSE PWR	O	Power supply output terminal to around NOSE.
41	NC	-	No connect terminal.
42			
43			
44	DIVIDER	I	DIVIDER 2way/3way switching SW detect signal input terminal.
45	ENCODER2	I	ENCODER-2 input terminal.
46	ENCODER1	I	ENCODER-1 input terminal.
47	NC	-	No connect terminal.
48			
49	POWER CONT	O	Power supply control signal output terminal.
50	NC	-	No connect terminal.
51	A-MUTE	O	Audio MUTE signal output terminal.
52	IN-INT	I	Outer interrupt signal input terminal.
53	NC	-	No connect terminal.
54			
55	IN DIMMER(PULL-UP)	-	Pull-up connect terminal.
56	NC	-	No connect terminal.
57			
58	ZERO DET	I	0-bit MUTE signal input terminal from CD μ-COM.
59	IIC DATA	I/O	Serial data signal input/output terminal for system IIC control.
60	VCC	-	Power supply terminal.
61	IIC CLK	O	Clock signal output terminal for system IIC control.
62	VSS	-	GND terminal.
63	NC	O	DIMMER control signal output terminal.
64	DSP XRST	O	RESET signal output terminal to DSP IC.
65	DSP SCLK	O	Data clock signal output terminal to DSP IC.
66	DSP TRDT	O	Data-OUT signal output terminal to DSP IC.
67	DSP RVDT	I	Data-IN signal input terminal from DSP IC.
68	DSP XLAT	O	Data latch signal output terminal to DSP IC.
69	F-RESET	O	RESET signal output terminal to Front μ-COM.
70	F-START	O	Data sync. signal output terminal to Front μ-COM.
71	CLCK	I	Sync. clock signal input terminal from CD μ-COM.
72	RDS FIN	I	Status data signal input terminal from RDS μ-COM.
73	CD FIN	I	Data-IN signal input terminal from CD μ-COM.
74	CD FOUT	O	Data-OUT signal output terminal to CD μ-COM.
75	$\overline{\text{REG RESET}}$	O	RESET signal output terminal to system power IC.
76	RDS RST(NC)	-	No connect terminal.
77	NC		
78	RDS FOUT	O	Data-OUT signal output terminal to RDS μ-COM.
79	RDS STBY	O	Stand-by signal output terminal to RDS μ-COM.
80	T-AMUTE	I	A-MUTE signal input terminal from RDS μ-COM.
81	NC	-	No connect terminal.
82	LIMIT SW1(OPEN)	I	Open Limit Switch signal input terminal.
83	LIMIT SW2(CLOSE)	I	Close Limit Switch signal input terminal.
84	MOTOR ON	O	Power control signal output terminal for active NOSE Motor.
85	MOTOR FOR	O	Active NOSE Motor forward driving signal output terminal.

No.	Symbol	I/O	Terminal Description
86	MOTOR REV	O	Active NOSE Motor backward driving signal output terminal.
87	HI-TEMP	I	CD mechanism temperature detect signal input terminal.
88 89	GND	-	GND terminal.
90	AREA	I	Area/function definition terminal.
91 ~ 93	GND	-	GND terminal.
94	AVSS	I	GND terminal of A/D converter.
95	LPS	I	Angle position detect signal input terminal of active NOSE.
96	VREF	-	Standard voltage input terminal of A/D converter.
97	AVCC	-	Power supply input terminal of A/D converter.
98	SFSY	I	Data-IN signal input terminal from CD μ-COM.
99	NC	-	No connect terminal.
100	SBSY	O	Data clock signal output terminal to CD μ-COM.

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No.	Symbol	I/O	Terminal Description
1	IF MUTE	O	IF MUTE control terminal. (H:IF MUTE ON)
2 3	NC	-	No connect terminal.
4	RDS-CONT	O	RDS data input prevention control terminal of adjoining station. (H:RDS OFF)
5	$\overline{\text{IF MUTE(NC)}}$	-	No connect terminal.
6 ~ 8	NC		
9	VDD	-	Power supply terminal.
10	X2	-	Crystal OSC connect terminal for main system clock OSC. (12.288MHz)
11	X1		
12	VSS	-	GND terminal.
13	XT2(NC)	-	No connect terminal.
14	XT1(GND)	-	GND terminal.
15	$\overline{\text{RESET}}$	I	System reset input terminal.
16	BATT-DET	I	BATT compulsion stand-by signal input terminal from VDD IC.
17	STANDBY	I	Stand-by signal input terminal from Main μ-COM.
18	NC	-	No connect terminal.
19	IS BUS Fin	I	IS BUS frame signal input terminal.
20 ~ 22	NC	-	No connect terminal.
23	AVDD	-	Analog power supply terminal of A/D converter.
24	AVREF0	I	Standard voltage input terminal of A/D converter.
25	S-METER	I	Signal-Meter input terminal.
26	MULTIPATH	I	Multipath input terminal of RDS Decoder.
27	ADJCH-DET	I	Adjoining station detect input terminal.
28	SSTOP	I	FM station detect signal input terminal.
29	AMST/MP	I	SEEK STOP detect input terminal at AM. (H:Station ON)
30	AFC	I	FM station detect signal input terminal.
31 32	NC(GND)	-	GND terminal.

No.	Symbol	I/O	Terminal Description
33	AVSS	-	GND terminal of A/D converter.
34 35	NC	-	No connect terminal.
36	AVREF1	I	Standard voltage input terminal of D/A converter.
37	IS BUS RX	I	IS BUS receiving terminal.
38	IS BUS TX	O	IS BUS transmitting terminal.
39	IS BUS Fout	O	IS BUS frame signal output terminal.
40	MONITOR RXD	I	Command input terminal for RDS monitor (P/C). (Pull-up connect)
41	MONITOR TXD	O	Status output terminal for RDS monitor (P/C).
42 ~ 47	NC	-	No connect terminal.
48	T-MUTE	O	MUTE signal output terminal to Main μ-COM.
49 50	NC	-	No connect terminal.
51	MARKET1	I	Area set up terminal.
52	MARKET2		
53	MARKET3		
54	$\overline{\text{AUTO-ADJ}}$	I	Auto adjustment start signal terminal of FM/AM TUNER. (L:start)
55 ~ 71	NC	-	No connect terminal.
72	VSS	-	GND terminal.
73 ~ 80	NC	-	No connect terminal.
81	VDD	-	Power supply terminal.
82 ~ 91	NC	-	No connect terminal.
92	$\overline{\text{PAUSE}}$	I	Audio signal detect terminal. (L:Blank)
93	$\overline{\text{DAVN}}$	I	Data available input terminal of RDS Decoder.
94	TEST/VPP	-	GND terminal.
95	RDS SDA	I/O	Data input/output terminal to RDS Decoder.
96	RDS SCL	O	Clock output terminal to RDS Decoder.
97	IIC SCL	O	IIC clock output terminal to TUNER-IC(TDA7511).
98	IIC SDA	I/O	IIC data input/output terminal to TUNER-IC(TDA7511).
99	$\overline{\text{TUNER ON(NC)}}$	-	No connect terminal.
100	$\overline{\text{FM/AM}}$	O	FM/AM power supply switching terminal. (L:FM)

Electrical Parts List

Capacitor : μF=microfarads,pF=picofarads

Abbreviations

RES. = Resistor	CAP. = Capacitor
C.F. = Carbon Film	ELY. = Electrolytic
M.F. = Metal Film	CER. = Ceramic
M.O. = Metal OxideFilm	MYL. = Mylar
M.P. = Metal Plate	TAN. = Tantalum
TR. = Transistor	POLY. = Polystyrol
TRANS. = Transformer	PP. = Polypropylene
CP. = Chip	PLT. = Polyethylene
	PF. = Polyester Film

Symbol No.	Part No.	Description
Main-1 P.W.Board		
IC's		
IC001	51T93333F01	NJM2904M-TE3 -SE2
IC501	51T55350Y25	MTP,M30624FGGP
IC502	51T93332F01	IC,NJM2903M-TE3 -SE2
IC503	51T25160Y01	M24C04-WMN6T -SE2
IC504	51T25422Y02	TC7W04FK-TE85L -CP
IC601	51T93532F05	TC4S01F-TE85L -CP
IC701	51T15132Y02	SAA6588T -SE9
IC702	51T35566Y54	MTP,D78F4216AGC
IC810	51T25448Y01	BA6219BFP-Y-E2 -SE9
IC861	51T15720Y10	S-80930ANMP-T2 -CP
IC880	51T45336Y01	L5952 -ZS
Transistors		
Q001	48T63420F01	TR,2SA1037AK-146 -CP
Q002	48T64221F01	TR ,UN2111 10-10 -TX
Q004	48T64221F12	TR,UN211F-TX -CP
Q006	48T64222F02	TR ,UN2212 22-22 -TX
Q501	48T45594W16	TR,XN1A311-TX -CP
Q503	48T64222F02	TR ,UN2212 22-22 -TX
Q505	48T45594W12	TR ,XN1A312 -TX-CP
Q507	48T35548Y04	TR,2SB710A-S-TX -CP
Q508	48T64222F01	TR ,UN2211 10-10 -TX
Q509	48T56031F01	TR ,2SD1266-P,Q
Q510	48T45594W16	TR,XN1A311-TX -CP
Q511	48T64221F02	TR ,UN2112 22-22 -TX
Q512	48T52437F05	TR ,2SB709A-S /TX-CP
Q513	48T52438F04	TR ,2SD601A-S /TX-CP
Q603	48T52437F05	TR ,2SB709A-S /TX-CP
Q610	48T64221F11	TR,UN211L-TX -CP
Q699	48T64222F01	TR ,UN2211 10-10 -TX
Q701	48T64222F05	TR ,UN2215 10 -TX
Q801	48T45594W12	TR ,XN1A312 -TX-CP
Q810	48T92368F04	TR,2SD1760 R -E5
Q812	48T45594W12	TR ,XN1A312 -TX-CP
Q820	48T92368F04	TR,2SD1760 R -E5
Q821	48T92368F04	TR,2SD1760 R -E5
Q830	48T45594W12	TR ,XN1A312 -TX-CP
Q831	48T45594W12	TR ,XN1A312 -TX-CP
Q870	48T84366F03	TR,2SB1243-Q-TV2 -RD
Q871	48T64222F11	TR,UN221F-TX -CP
Q872	48T35548Y04	TR,2SB710A-S-TX -CP
Q873	48T84366F03	TR,2SB1243-Q-TV2 -RD
Q874	48T64222F12	TR,UN221L-TX -CP
Q875	48T64222F02	TR ,UN2212 22-22 -TX
Diodes		
D001	48T85357W01	DIO,1PS226 -CP
D501	48T25651W02	DIO,MA152WK-TX -CP
D502	48T25665Y01	DIO,1SS355-TE17 -CP
D503	48T25665Y01	DIO,1SS355-TE17 -CP
D504	48T25665Y01	DIO,1SS355-TE17 -CP
D505	48T25665Y01	DIO,1SS355-TE17 -CP
D507	48T25665Y01	DIO,1SS355-TE17 -CP
D508	48T25665Y01	DIO,1SS355-TE17 -CP
D509	48T25651W01	DIO,CP MA152WA
D510	48T25651W02	DIO,MA152WK-TX -CP
D511	48T85357W01	DIO,1PS226 -CP
D601	48T85357W01	DIO,1PS226 -CP
D602	48T25651W02	DIO,MA152WK-TX -CP
D610	48T25651W02	DIO,MA152WK-TX -CP
D701	48T25665Y01	DIO,1SS355-TE17 -CP
D702	48T25665Y01	DIO,1SS355-TE17 -CP
D703	48T25665Y01	DIO,1SS355-TE17 -CP
D801	48T25593Y01	DIO,S1G-6601 -E1
D810	48T81063F01	DIO,CP,MA159 / TX-CP
D830	48T25651W02	DIO,MA152WK-TX -CP
D840	48T85427W01	DIO,DSM3MA4 -E5
D860	48T25593Y01	DIO,S1G-6601 -E1
D861	48T85357W01	DIO,1PS226 -CP
SD805	48T55596Y01	DIO,SHT EC10QS06 -E1
ZD504	48T25766W01	DIO,ZEN.HZS 6A1L -R5
ZD810	48T25801W12	DIO,ZEN.HZS 5CLL -R5
ZD811	48T25766W39	DIO,ZEN.HZS12B1L -R5
ZD820	48T25766W30	DIO,ZEN.HZS11B1L -R5
ZD830	48T62934F29	DIO,ZEN.RD6.8MB3 -CP

Symbol No.	Part No.	Description
Coils		
L001	24T25164Y21	IND,FSLM2520 4R7J-CP
L002	24T16403W29	COI,IND.15R-M -CP
L003	24T35286Y01	IND,MG56 523J -DB
L004	24T25164Y21	IND,FSLM2520 4R7J-CP
Crystals		
XL501	91T55217Y04	XTL,NX8045GB 16.0-E5
XL701	91T25806W18	XTL,4.332M -AT51-TP
XL702	91T55360Y03	XTL,AT-51 12.288M-R5
Filters		
CF001	91T75257W02	LPF,LPF11830KH-3C-DB
L703	91T65112W06	EMI,BK2125HM102 -CP
Surge Protector		
SA001	48T81048F02	PTT,DSP-201M -RD
Capacitors		
C001	08S45677W60	CAP,CER 102J-CH1H-CP
C002	08S45676W73	CAP,CER.103K-B1H -CP
C003	08S45676W73	CAP,CER.103K-B1H -CP
C004	08S45676W73	CAP,CER.103K-B1H -CP
C005	08S45676W73	CAP,CER.103K-B1H -CP
C006	08S45676W73	CAP,CER.103K-B1H -CP
C007	08S45676W73	CAP,CER.103K-B1H -CP
C008	08S45676W85	CAP,CER 104K-B1C -CP
C010	08S45676W85	CAP,CER 104K-B1C -CP
C011	08S45676W85	CAP,CER 104K-B1C -CP
C099	08S45677W60	CAP,CER 102J-CH1H-CP
C501	08S45677W12	CAP,CER.10RD-CH1H-CP
C502	08S45677W12	CAP,CER.10RD-CH1H-CP
C505	08S45676W73	CAP,CER.103K-B1H -CP
C506	08S45676W80	CAP,CER 223K-B1E -CP
C507	08S45676W73	CAP,CER.103K-B1H -CP
C508	08S45677W36	CAP,CER.101J-CH1H-CP
C509	08S45677W22	CAP,CER.27RJ-CH1H-CP
C510	08S45677W60	CAP,CER 102J-CH1H-CP
C513	08S45676W85	CAP,CER 104K-B1C -CP
C541	08S45676W73	CAP,CER.103K-B1H -CP
C601	08S45677W36	CAP,CER.101J-CH1H-CP

Symbol No.	Part No.	Description
C602	08S45676W65	CAP,CER.222K-B1H -CP
C603	08S45676W85	CAP,CER 104K-B1C -CP
C604	08S45676W80	CAP,CER 223K-B1E -CP
C701	08S45677W48	CAP,CER.331J-CH1H-CP
C702	08S45676W80	CAP,CER 223K-B1E -CP
C703	08S45677W36	CAP,CER.101J-CH1H-CP
C704	08S45676W65	CAP,CER.222K-B1H -CP
C705	08S45676W85	CAP,CER 104K-B1C -CP
C706	08S45677W54	CAP,CER 561J-CH1H-CP
C707	08S45676W85	CAP,CER 104K-B1C -CP
C708	08S45677W42	CAP,CER.181J-CH1H-CP
C709	08S45676W80	CAP,CER 223K-B1E -CP
C710	08S45676W65	CAP,CER.222K-B1H -CP
C711	08S45677W22	CAP,CER.27RJ-CH1H-CP
C712	08S45677W22	CAP,CER.27RJ-CH1H-CP
C713	08S45677W36	CAP,CER.101J-CH1H-CP
C714	08S45677W36	CAP,CER.101J-CH1H-CP
C715	08S45676W80	CAP,CER 223K-B1E -CP
C716	08S45677W18	CAP,CER.18RJ-CH1H-CP
C717	08S45677W18	CAP,CER.18RJ-CH1H-CP
C718	08S45676W73	CAP,CER.103K-B1H -CP
C720	08S45677W24	CAP,CER 33RJ-CH1H-CP
C721	08S45677W24	CAP,CER 33RJ-CH1H-CP
C810	08S45676W80	CAP,CER 223K-B1E -CP
C813	08S45676W80	CAP,CER 223K-B1E -CP
C814	08S45676W80	CAP,CER 223K-B1E -CP
C815	08S45676W80	CAP,CER 223K-B1E -CP
C820	08S45676W85	CAP,CER 104K-B1C -CP
C822	08S45676W80	CAP,CER 223K-B1E -CP
C831	08T15807W05	CAP,CP 104-B-K-1H
C832	08S45676W89	CAP,CER 473K-B1E -CP
C833	08S45676W85	CAP,CER 104K-B1C -CP
C840	08S45539Y02	CAP,CER 222KX7R2J-CP
C841	08S65128F90	CAP,CER 473K-B1H -CP
C850	08S45539Y02	CAP,CER 222KX7R2J-CP
C851	08S45676W80	CAP,CER 223K-B1E -CP
C861	08T55390W34	CAP,TF 274J-1H -R5
C881	08S45676W80	CAP,CER 223K-B1E -CP
C882	08S45676W80	CAP,CER 223K-B1E -CP
C883	08S45676W80	CAP,CER 223K-B1E -CP
C884	08S45676W80	CAP,CER 223K-B1E -CP
C885	08S45676W80	CAP,CER 223K-B1E -CP
C886	08S45676W80	CAP,CER 223K-B1E -CP
C887	08S45676W85	CAP,CER 104K-B1C -CP
C889	08S60102F48	CAP,CER 105K-B1E -CP
E002	23S45639Y06	CAP,ELY 221-1A -R2
E003	23S45639Y08	CAP,ELY 22R-1C -R2
E004	23S45639Y08	CAP,ELY 22R-1C -R2
E005	23S45639Y08	CAP,ELY 22R-1C -R2

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Symbol No.	Part No.	Description
E501	23S65134W24	CAP, ELY 221-1A(8)-E6
E502	23S65134W34	CAP, ELY 47R-1C(6)-E6
E503	23S65134W32	CAP, ELY 22R-1C(5)-E3
E504	23S65134W34	CAP, ELY 47R-1C(6)-E6
E505	23S65134W34	CAP, ELY 47R-1C(6)-E6
E701	23S65134W32	CAP, ELY 22R-1C(5)-E3
E702	23S65134W51	CAP, ELY 2R2-1V(3)-E2
E703	23S65134W24	CAP, ELY 221-1A(8)-E6
E810	23S65134W34	CAP, ELY 47R-1C(6)-E6
E811	23S65134W32	CAP, ELY 22R-1C(5)-E3
E820	23T35612Y01	CAP, WX 101-1C -E6
E821	23S65134W34	CAP, ELY 47R-1C(6)-E6
E840	23T75346W03	CAP, X-PRO 332-1C -
E851	23T45213Y05	CAP, UD 471-1C -EA
E881	23T95564W10	CAP, FC 47R-1C-D -E6
E883	23T95564W10	CAP, FC 47R-1C-D -E6
E884	23T95564W10	CAP, FC 47R-1C-D -E6
E885	23T95564W10	CAP, FC 47R-1C-D -E6
E886	23T95564W10	CAP, FC 47R-1C-D -E6
E887	23S65134W31	CAP, ELY 10R-1C(4)-E2
Resistors		
L701	06T75432W50	RES, RK JUMPER1/8 -CP
L702	06T75432W50	RES, RK JUMPER1/8 -CP
R002	06S55361Y17	RES, RK 10RJ 1/4 -CP
R003	06S55365Y41	RES, RK 101J 1/10 -CP
R004	06S55365Y41	RES, RK 101J 1/10 -CP
R005	06S55361Y49	RES, RK 221J 1/4 -CP
R009	06S55366Y02	RES, RK 333J 1/10 -CP
R011	06S55365Y77	RES, RK 332J 1/10 -CP
R012	06S55361Y65	RES, RK 102J 1/4 -CP
R013	06S55365Y65	RES, RK 102J 1/10 -CP
R014	06S55365Y65	RES, RK 102J 1/10 -CP
R015	06S55365Y65	RES, RK 102J 1/10 -CP
R016	06S55366Y14	RES, RK 104J 1/10 -CP
R017	06S55366Y39	RES, RK JUMPER1/10-CP
R018	06S55365Y65	RES, RK 102J 1/10 -CP
R020	06S55366Y02	RES, RK 333J 1/10 -CP
R501	06S55366Y06	RES, RK 473J 1/10 -CP
R502	06S55366Y06	RES, RK 473J 1/10 -CP
R503	06S55365Y89	RES, RK 103J 1/10 -CP
R504	06S55366Y06	RES, RK 473J 1/10 -CP
R507	06S55366Y06	RES, RK 473J 1/10 -CP
R508	06S55366Y06	RES, RK 473J 1/10 -CP
R509	06S55365Y65	RES, RK 102J 1/10 -CP
R510	06S55365Y65	RES, RK 102J 1/10 -CP
R511	06S55365Y89	RES, RK 103J 1/10 -CP

Symbol No.	Part No.	Description
R512	06S55366Y06	RES, RK 473J 1/10 -CP
R513	06S55365Y65	RES, RK 102J 1/10 -CP
R514	06S55365Y65	RES, RK 102J 1/10 -CP
R515	06S55365Y97	RES, RK 223J 1/10 -CP
R517	06S55365Y65	RES, RK 102J 1/10 -CP
R518	06S55365Y65	RES, RK 102J 1/10 -CP
R519	06S55365Y65	RES, RK 102J 1/10 -CP
R520	06S55365Y65	RES, RK 102J 1/10 -CP
R521	06S55365Y97	RES, RK 223J 1/10 -CP
R522	06S55365Y97	RES, RK 223J 1/10 -CP
R523	06S55365Y65	RES, RK 102J 1/10 -CP
R524	06S55365Y65	RES, RK 102J 1/10 -CP
R525	06S55366Y30	RES, RK 474J 1/10 -CP
R526	06S55365Y65	RES, RK 102J 1/10 -CP
R527	06S55365Y65	RES, RK 102J 1/10 -CP
R528	06S55365Y73	RES, RK 222J 1/10 -CP
R531	06S55365Y65	RES, RK 102J 1/10 -CP
R533	06S55365Y91	RES, RK 123J 1/10 -CP
R534	06S55365Y65	RES, RK 102J 1/10 -CP
R535	06S55366Y06	RES, RK 473J 1/10 -CP
R538	06S55365Y49	RES, RK 221J 1/10 -CP
R539	06S55365Y49	RES, RK 221J 1/10 -CP
R540	06S55365Y89	RES, RK 103J 1/10 -CP
R541	06S55365Y89	RES, RK 103J 1/10 -CP
R542	06S55366Y39	RES, RK JUMPER1/10-CP
R543	06S55365Y73	RES, RK 222J 1/10 -CP
R544	06S55365Y97	RES, RK 223J 1/10 -CP
R545	06S55366Y30	RES, RK 474J 1/10 -CP
R546	06S55365Y89	RES, RK 103J 1/10 -CP
R547	06S55365Y89	RES, RK 103J 1/10 -CP
R550	06S55365Y89	RES, RK 103J 1/10 -CP
R551	06S55362Y39	RES, RK JUMPER 1/4-CP
R552	06S55365Y89	RES, RK 103J 1/10 -CP
R553	06S55365Y89	RES, RK 103J 1/10 -CP
R554	06S55365Y85	RES, RK 682J 1/10 -CP
R555	06S55365Y81	RES, RK 472J 1/10 -CP
R556	06S55365Y67	RES, RK 122J 1/10 -CP
R557	06S55365Y85	RES, RK 682J 1/10 -CP
R558	06S55365Y89	RES, RK 103J 1/10 -CP
R559	06S55365Y89	RES, RK 103J 1/10 -CP
R560	06S55361Y17	RES, RK 10RJ 1/4 -CP
R561	06S55361Y31	RES, RK 39RJ 1/4 -CP
R562	06S55361Y31	RES, RK 39RJ 1/4 -CP
R563	06S55365Y49	RES, RK 221J 1/10 -CP
R564	06S55365Y49	RES, RK 221J 1/10 -CP
R565	06S55361Y49	RES, RK 221J 1/4 -CP
R566	06S55365Y75	RES, RK 272J 1/10 -CP
R567	06S55365Y72	RES, RK 202J 1/10 -CP
R568	06S55365Y89	RES, RK 103J 1/10 -CP

Symbol No.	Part No.	Description
R569	06S55366Y06	RES, RK 473J 1/10 -CP
R581	06S55366Y06	RES, RK 473J 1/10 -CP
R582	06S55366Y06	RES, RK 473J 1/10 -CP
R588	06S55366Y06	RES, RK 473J 1/10 -CP
R592	06S55365Y65	RES, RK 102J 1/10 -CP
R595	06S55361Y63	RES, RK 821J 1/4 -CP
R596	06S55361Y63	RES, RK 821J 1/4 -CP
R598	06S55366Y39	RES, RK JUMPER1/10-CP
R601	06S55365Y65	RES, RK 102J 1/10 -CP
R602	06S55365Y97	RES, RK 223J 1/10 -CP
R604	06S55365Y77	RES, RK 332J 1/10 -CP
R605	06S55365Y73	RES, RK 222J 1/10 -CP
R606	06S55361Y41	RES, RK 101J 1/4 -CP
R607	06S55366Y30	RES, RK 474J 1/10 -CP
R609	06S55365Y97	RES, RK 223J 1/10 -CP
R610	06S55366Y06	RES, RK 473J 1/10 -CP
R626	06S55365Y97	RES, RK 223J 1/10 -CP
R681	06S55361Y31	RES, RK 39RJ 1/4 -CP
R682	06S55361Y31	RES, RK 39RJ 1/4 -CP
R683	06S55365Y73	RES, RK 222J 1/10 -CP
R684	06S55365Y69	RES, RK 152J 1/10 -CP
R685	06S55365Y69	RES, RK 152J 1/10 -CP
R686	06S55365Y73	RES, RK 222J 1/10 -CP
R701	06S55365Y17	RES, RK 10RJ 1/10 -CP
R702	06S55366Y39	RES, RK JUMPER1/10-CP
R703	06S55365Y77	RES, RK 332J 1/10 -CP
R704	06S55365Y77	RES, RK 332J 1/10 -CP
R705	06S55365Y65	RES, RK 102J 1/10 -CP
R706	06S55365Y65	RES, RK 102J 1/10 -CP
R707	06S55365Y65	RES, RK 102J 1/10 -CP
R708	06S55365Y41	RES, RK 101J 1/10 -CP
R709	06S55365Y41	RES, RK 101J 1/10 -CP
R710	06S55366Y30	RES, RK 474J 1/10 -CP
R712	06S55365Y81	RES, RK 472J 1/10 -CP
R713	06S55366Y39	RES, RK JUMPER1/10-CP
R714	06S55365Y65	RES, RK 102J 1/10 -CP
R715	06S55365Y65	RES, RK 102J 1/10 -CP
R716	06S55365Y65	RES, RK 102J 1/10 -CP
R717	06S55366Y06	RES, RK 473J 1/10 -CP
R718	06S55365Y65	RES, RK 102J 1/10 -CP
R719	06S55365Y41	RES, RK 101J 1/10 -CP
R720	06S55365Y41	RES, RK 101J 1/10 -CP
R721	06S55365Y41	RES, RK 101J 1/10 -CP
R722	06S55365Y41	RES, RK 101J 1/10 -CP
R723	06S55366Y39	RES, RK JUMPER1/10-CP
R724	06S55365Y97	RES, RK 223J 1/10 -CP
R725	06S55365Y97	RES, RK 223J 1/10 -CP
R726	06S55365Y97	RES, RK 223J 1/10 -CP
R727	06S55365Y97	RES, RK 223J 1/10 -CP

Symbol No.	Part No.	Description
R728	06S55366Y06	RES, RK 473J 1/10 -CP
R729	06S55365Y65	RES, RK 102J 1/10 -CP
R730	06S55365Y65	RES, RK 102J 1/10 -CP
R734	06S55365Y49	RES, RK 221J 1/10 -CP
R735	06S55365Y77	RES, RK 332J 1/10 -CP
R736	06S55365Y77	RES, RK 332J 1/10 -CP
R737	06S55366Y06	RES, RK 473J 1/10 -CP
R801	06S55361Y51	RES, RK 271J 1/4 -CP
R802	06S55361Y51	RES, RK 271J 1/4 -CP
R803	06S55366Y39	RES, RK JUMPER1/10-CP
R804	06S55366Y06	RES, RK 473J 1/10 -CP
R805	06S55361Y73	RES, RK 222J 1/4 -CP
R807	06S55366Y39	RES, RK JUMPER1/10-CP
R810	06S55361Y29	RES, RK 33RJ 1/4 -CP
R811	06S55361Y29	RES, RK 33RJ 1/4 -CP
R812	06S55361Y29	RES, RK 33RJ 1/4 -CP
R813	06S55361Y29	RES, RK 33RJ 1/4 -CP
R814	06S55361Y29	RES, RK 33RJ 1/4 -CP
R815	06S55361Y29	RES, RK 33RJ 1/4 -CP
R818	06S55361Y55	RES, RK 391J 1/4 -CP
R821	06S55361Y53	RES, RK 331J 1/4 -CP
R822	06S55361Y11	RES, RK 5R6J 1/4 -CP
R823	06S55361Y11	RES, RK 5R6J 1/4 -CP
R824	06S55362Y28	RES, RK 394J 1/4 -CP
R825	06S55361Y41	RES, RK 101J 1/4 -CP
R827	06S55361Y41	RES, RK 101J 1/4 -CP
R830	06S55361Y81	RES, RK 472J 1/4 -CP
R831	06S55361Y81	RES, RK 472J 1/4 -CP
R833	06S55362Y39	RES, RK JUMPER 1/4-CP
R835	06S55366Y36	RES, RK 824J 1/10 -CP
R836	06S55366Y36	RES, RK 824J 1/10 -CP
R837	06S55366Y35	RES, RK 754J 1/10 -CP
R838	06S55366Y33	RES, RK 624J 1/10 -CP
R839	06S55366Y36	RES, RK 824J 1/10 -CP
R841	06S55361Y98	RES, RK 243J 1/4 -CP
R851	06S55361Y89	RES, RK 103J 1/4 -CP
R859	06S55365Y89	RES, RK 103J 1/10 -CP
R860	06S55361Y89	RES, RK 103J 1/4 -CP
R861	06S55361Y15	RES, RK 8R2J 1/4 -CP
R862	06S55361Y15	RES, RK 8R2J 1/4 -CP
R863	06S55361Y15	RES, RK 8R2J 1/4 -CP
R865	06S55361Y15	RES, RK 8R2J 1/4 -CP
R866	06S55361Y98	RES, RK 243J 1/4 -CP
R867	06S55361Y71	RES, RK 182J 1/4 -CP
R868	06S55361Y71	RES, RK 182J 1/4 -CP
R869	06S55365Y89	RES, RK 103J 1/10 -CP
R870	06S55361Y98	RES, RK 243J 1/4 -CP
R871	06S55361Y71	RES, RK 182J 1/4 -CP
R872	06S55361Y71	RES, RK 182J 1/4 -CP

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Symbol No.	Part No.	Description
R873	06S55361Y71	RES, RK 182J 1/4 -CP
R874	06S55361Y71	RES, RK 182J 1/4 -CP
R875	06S55361Y71	RES, RK 182J 1/4 -CP
R879	06S55365Y97	RES, RK 223J 1/10 -CP
R880	06S55365Y49	RES, RK 221J 1/10 -CP
R881	06S55365Y49	RES, RK 221J 1/10 -CP
R883	06S45348Y31	RES, RK 224F 1/4 -CP
R885	06S55365Y97	RES, RK 223J 1/10 -CP
R886	06S15593Y73	RES, RK 103F 1/10 -CP
R887	06S55366Y39	RES, RK JUMPER1/10-CP
R889	06S55365Y97	RES, RK 223J 1/10 -CP
R890	06S15593Y63	RES, RK 392F 1/10 -CP
R897	06S15593Y87	RES, RK 393F 1/10 -CP
R898	06T25277Y73	RES, RK 472J 1/10 -CP
RA501	06S45591W06	RES, ARY MNR102J 4-CP
RA502	06S45591W06	RES, ARY MNR102J 4-CP
RA504	06S45591W06	RES, ARY MNR102J 4-CP
RA505	06S45591W06	RES, ARY MNR102J 4-CP
RA507	06S45591W06	RES, ARY MNR102J 4-CP
RA508	06S45591W06	RES, ARY MNR102J 4-CP
Connectors		
CB501	09T45391Y26	FFC, IMSA9632S-26Y-ED
CB502	09T15189Y22	FFC, 52559-2290 -E9
CB601	09T25436Y03	WTB, 53253-0310 -DB
CB801	09T25436Y06	WTB, 53253-0610 -DB
CB810	09T25436Y02	WTB, 53253-0210 -DB
CB812	09T25436Y09	WTB, 53253-0910 -DB
CH813	09T35616Y32	BTB, IMSA9854B-32A-DB
Main-2 P.W.Board		
IC's		
IC101	51T55306Y31	OTP, TMP87PM48U
IC102	51T55311Y01	TC94A02F-005 -QT
IC103	51T55323Y01	HY62U8100BLLST -ST
IC104	51T35243Y02	RN5RZ25BA-TR -CP
IC105	51T55322Y01	RH5RZ33CA-T1 -NE2
IC106	51T35243Y02	RN5RZ25BA-TR -CP
IC107	51T15731W03	TC7S02F-TE85L -CP
IC201	51T35457Y02	TDA7402 -QT
IC202	51T35562Y03	CXD2729Q-3 -QT
IC203	51T25576W04	IC, NJM4580E-TE2-SE3
IC204	51T25576W04	IC, NJM4580E-TE2-SE3

Symbol No.	Part No.	Description
IC205	51T25576W04	IC, NJM4580E-TE2-SE3
IC206	51T25576W04	IC, NJM4580E-TE2-SE3
IC351	51T25576W04	IC, NJM4580E-TE2-SE3
IC352	51T25576W04	IC, NJM4580E-TE2-SE3
IC353	51T25576W04	IC, NJM4580E-TE2-SE3
Transistors		
Q101	48T64222F02	TR, UN2212 22-22 -TX
Q102	48T45594W16	TR, XN1A311-TX -CP
Q202	48T45251W03	TR, UN5212 22-22 -CP
Q203	48T64222F02	TR, UN2212 22-22 -TX
Q351	48T25055Y02	TR, UN2226-TX -CP
Q352	48T25055Y02	TR, UN2226-TX -CP
Q353	48T25055Y02	TR, UN2226-TX -CP
Q354	48T25055Y02	TR, UN2226-TX -CP
Q355	48T25055Y02	TR, UN2226-TX -CP
Q356	48T25055Y02	TR, UN2226-TX -CP
Q661	48T45594W16	TR, XN1A311-TX -CP
Q671	48T64222F02	TR, UN2212 22-22 -TX
Diodes		
D101	48T25665Y01	DIO, 1SS355-TE17 -CP
D102	48T25651W02	DIO, MA152WK-TX -CP
D351	48T25651W01	DIO, CP MA152WA
D352	48T25651W01	DIO, CP MA152WA
D353	48T25651W01	DIO, CP MA152WA
Filters		
L101	91T65112W06	EMI, BK2125HM102 -CP
L102	91T65112W06	EMI, BK2125HM102 -CP
L103	91T65112W06	EMI, BK2125HM102 -CP
L104	91T65112W06	EMI, BK2125HM102 -CP
L201	91T65112W06	EMI, BK2125HM102 -CP
L202	91T65112W06	EMI, BK2125HM102 -CP
R142	91T15509Y08	EMI, BK1608HM102 -CP
Coils		
L107	24T65110W24	IND, LK2125 4R7K -CP
L204	24T25164Y21	IND, FSLM2520 4R7J-CP
L205	24T15758Y09	IND, NLFC 22RK -CP
L661	24T93615F03	IND, NL 10RJ -CP

Symbol No.	Part No.	Description
Crystals		
CL101	91T75576W11	OSC, CER EFOS8004E-E5
XL102	91T35227Y01	XTL, CS10 16.9344M-E2
XL201	91T35227Y02	XTL, CS10 22.5792M-E2
Switches		
SW201	40T45282W02	SW, SLIDE SLD-42-508X (EQ/DIV)/NORM)
SW202	40T45350Y01	SW, SLIDE SLD-12-500 (3WAY/(F/R Sub.W))
Buzzer		
BZ671	50T85541W01	BUZZER, CD11PA-XZ -H5
Thermistor		
TH170	48T25250Y01	TMT, ERTJ1VV104J -CP
Capacitors		
C100	08S45677W32	CAP, CER. 68RJ-CH1H-CP
C101	08S45676W73	CAP, CER. 103K-B1H -CP
C102	08S45676W85	CAP, CER 104K-B1C -CP
C103	08S45677W12	CAP, CER. 10RD-CH1H-CP
C104	08S45677W14	CAP, CER. 12RJ-CH1H-CP
C105	08S45676W85	CAP, CER 104K-B1C -CP
C106	08S45676W85	CAP, CER 104K-B1C -CP
C107	08S45676W85	CAP, CER 104K-B1C -CP
C108	08S45676W65	CAP, CER. 222K-B1H -CP
C109	08S45676W65	CAP, CER. 222K-B1H -CP
C113	08S45676W85	CAP, CER 104K-B1C -CP
C114	08S35374W07	CAP, CER 334K-B1C -CP
C115	08S45676W85	CAP, CER 104K-B1C -CP
C116	08S45676W85	CAP, CER 104K-B1C -CP
C118	08S45676W85	CAP, CER 104K-B1C -CP
C119	08S45676W85	CAP, CER 104K-B1C -CP
C121	08S45676W85	CAP, CER 104K-B1C -CP
C122	08S45676W85	CAP, CER 104K-B1C -CP
C123	08S45677W44	CAP, CER. 221J-CH1H-CP
C124	08S45676W85	CAP, CER 104K-B1C -CP
C125	08S45676W85	CAP, CER 104K-B1C -CP
C127	08S45676W85	CAP, CER 104K-B1C -CP
C128	08S45676W85	CAP, CER 104K-B1C -CP

Symbol No.	Part No.	Description
C129	08S45676W80	CAP, CER 223K-B1E -CP
C130	08S45676W85	CAP, CER 104K-B1C -CP
C201	08S45676W85	CAP, CER 104K-B1C -CP
C202	08S45676W85	CAP, CER 104K-B1C -CP
C203	08S60102F46	CAP, CER 684K-B1E -CP
C205	08S45676W75	CAP, CER. 153K-B1H -CP
C207	08S45676W85	CAP, CER 104K-B1C -CP
C208	08S45676W85	CAP, CER 104K-B1C -CP
C209	08S45677W42	CAP, CER. 181J-CH1H-CP
C210	08S45677W60	CAP, CER 102J-CH1H-CP
C213	08S45676W83	CAP, CER 473K-B1C -CP
C214	08S45676W84	CAP, CER 683K-B1C -CP
C215	08S65128F79	CAP, CER. 273K-B1H -CP
C218	08S45676W85	CAP, CER 104K-B1C -CP
C219	08S35350Y04	CAP, CER 105K-B1C -CP
C220	08S45676W85	CAP, CER 104K-B1C -CP
C221	08S45676W85	CAP, CER 104K-B1C -CP
C222	08S45676W85	CAP, CER 104K-B1C -CP
C223	08S35350Y03	CAP, CER 224K-B1C -CP
C224	08S45676W85	CAP, CER 104K-B1C -CP
C225	08S35350Y03	CAP, CER 224K-B1C -CP
C226	08S45676W85	CAP, CER 104K-B1C -CP
C227	08S45677W60	CAP, CER 102J-CH1H-CP
C228	08S45676W85	CAP, CER 104K-B1C -CP
C229	08S45676W85	CAP, CER 104K-B1C -CP
C230	08S45676W85	CAP, CER 104K-B1C -CP
C231	08S45676W85	CAP, CER 104K-B1C -CP
C232	08S35350Y03	CAP, CER 224K-B1C -CP
C233	08S45676W85	CAP, CER 104K-B1C -CP
C234	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C235	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C236	08S35350Y03	CAP, CER 224K-B1C -CP
C237	08S45676W85	CAP, CER 104K-B1C -CP
C238	08S45676W85	CAP, CER 104K-B1C -CP
C239	08S45676W85	CAP, CER 104K-B1C -CP
C240	08S45676W85	CAP, CER 104K-B1C -CP
C241	08S35350Y03	CAP, CER 224K-B1C -CP
C242	08S45676W85	CAP, CER 104K-B1C -CP
C243	08S35350Y03	CAP, CER 224K-B1C -CP
C245	08S45677W36	CAP, CER. 101J-CH1H-CP
C246	08S45676W85	CAP, CER 104K-B1C -CP
C247	08S45676W85	CAP, CER 104K-B1C -CP
C248	08S45676W85	CAP, CER 104K-B1C -CP
C249	08S35350Y04	CAP, CER 105K-B1C -CP
C250	08S45676W85	CAP, CER 104K-B1C -CP
C251	08S45676W63	CAP, CER 152K-B1H -CP
C252	08S45676W63	CAP, CER 152K-B1H -CP
C253	08S45676W66	CAP, CER. 272K-B1H -CP
C254	08S45676W66	CAP, CER. 272K-B1H -CP

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Symbol No.	Part No.	Description
C255	08S45676W64	CAP, CER. 182K-B1H -CP
C256	08S45677W09	CAP, CER 7R0D-CH1H-CP
C257	08S45677W09	CAP, CER 7R0D-CH1H-CP
C258	08S45676W64	CAP, CER. 182K-B1H -CP
C259	08S45676W63	CAP, CER 152K-B1H -CP
C260	08S45676W63	CAP, CER 152K-B1H -CP
C261	08S45676W66	CAP, CER. 272K-B1H -CP
C262	08S45676W66	CAP, CER. 272K-B1H -CP
C263	08S45676W64	CAP, CER. 182K-B1H -CP
C264	08S45677W09	CAP, CER 7R0D-CH1H-CP
C265	08S45677W09	CAP, CER 7R0D-CH1H-CP
C266	08S45676W64	CAP, CER. 182K-B1H -CP
C267	08S45676W63	CAP, CER 152K-B1H -CP
C268	08S45676W63	CAP, CER 152K-B1H -CP
C269	08S45676W66	CAP, CER. 272K-B1H -CP
C270	08S45676W66	CAP, CER. 272K-B1H -CP
C271	08S45676W64	CAP, CER. 182K-B1H -CP
C272	08S45677W09	CAP, CER 7R0D-CH1H-CP
C273	08S45677W09	CAP, CER 7R0D-CH1H-CP
C274	08S45676W64	CAP, CER. 182K-B1H -CP
C275	08S45676W80	CAP, CER 223K-B1E -CP
C351	08S45676W63	CAP, CER 152K-B1H -CP
C352	08S45676W63	CAP, CER 152K-B1H -CP
C353	08S45676W66	CAP, CER. 272K-B1H -CP
C354	08S45676W66	CAP, CER. 272K-B1H -CP
C355	08S45676W64	CAP, CER. 182K-B1H -CP
C356	08S45676W64	CAP, CER. 182K-B1H -CP
C357	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C358	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C359	08S45676W63	CAP, CER 152K-B1H -CP
C360	08S45676W63	CAP, CER 152K-B1H -CP
C361	08S45676W66	CAP, CER. 272K-B1H -CP
C362	08S45676W66	CAP, CER. 272K-B1H -CP
C363	08S45676W64	CAP, CER. 182K-B1H -CP
C364	08S45676W64	CAP, CER. 182K-B1H -CP
C365	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C366	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C367	08S45676W63	CAP, CER 152K-B1H -CP
C368	08S45676W63	CAP, CER 152K-B1H -CP
C369	08S45676W66	CAP, CER. 272K-B1H -CP
C370	08S45676W66	CAP, CER. 272K-B1H -CP
C371	08S45676W64	CAP, CER. 182K-B1H -CP
C372	08S45676W64	CAP, CER. 182K-B1H -CP
C373	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C374	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C375	08S45676W73	CAP, CER. 103K-B1H -CP
C376	08S45676W73	CAP, CER. 103K-B1H -CP
C377	08S45676W73	CAP, CER. 103K-B1H -CP
C378	08S45677W60	CAP, CER 102J-CH1H-CP

Symbol No.	Part No.	Description
C661	08S65128F78	CAP, CER. 223K-B1H -CP
E101	23S65134W11	CAP, ELY 22R-0J(4)-E2
E102	23S65134W11	CAP, ELY 22R-0J(4)-E2
E103	23T85403W01	CAP, HA 47R-0G-B -E2
E104	23S65134W11	CAP, ELY 22R-0J(4)-E2
E105	23S65134W11	CAP, ELY 22R-0J(4)-E2
E106	23S65134W11	CAP, ELY 22R-0J(4)-E2
E107	23S65134W11	CAP, ELY 22R-0J(4)-E2
E108	23S65134W11	CAP, ELY 22R-0J(4)-E2
E109	23S65134W13	CAP, ELY 101-0J(6)-E6
E110	23S65134W24	CAP, ELY 221-1A(8)-E6
E111	23S65134W13	CAP, ELY 101-0J(6)-E6
E112	23S65134W11	CAP, ELY 22R-0J(4)-E2
E113	23S65134W11	CAP, ELY 22R-0J(4)-E2
E114	23S65134W11	CAP, ELY 22R-0J(4)-E2
E201	23S65134W51	CAP, ELY 2R2-1V(3)-E2
E202	23S65134W65	CAP, ELY 1R0-1H(3)-E2
E203	23S65134W65	CAP, ELY 1R0-1H(3)-E2
E204	23S65134W65	CAP, ELY 1R0-1H(3)-E2
E205	23S65134W65	CAP, ELY 1R0-1H(3)-E2
E206	23S65134W31	CAP, ELY 10R-1C(4)-E2
E208	23T25615Y14	CAP, ZT 101-1A -E6
E209	23S65134W31	CAP, ELY 10R-1C(4)-E2
E210	23S65134W52	CAP, ELY 3R3-1V(3)-E2
E211	23S65134W52	CAP, ELY 3R3-1V(3)-E2
E212	23S65134W52	CAP, ELY 3R3-1V(3)-E2
E213	23S65134W52	CAP, ELY 3R3-1V(3)-E2
E214	23S65134W52	CAP, ELY 3R3-1V(3)-E2
E215	23S65134W52	CAP, ELY 3R3-1V(3)-E2
E216	23T55616Y01	CAP, MR 221-0J -E6
E217	23S65134W11	CAP, ELY 22R-0J(4)-E2
E218	23T95564W05	CAP, FC 221-0J-E -E6
E219	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E220	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E221	23S65134W11	CAP, ELY 22R-0J(4)-E2
E222	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E223	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E224	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E225	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E226	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E227	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E228	23S65134W11	CAP, ELY 22R-0J(4)-E2
E229	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E230	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E231	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E232	23S65134W13	CAP, ELY 101-0J(6)-E6
E233	23S65134W13	CAP, ELY 101-0J(6)-E6
E234	23S65134W34	CAP, ELY 47R-1C(6)-E6
E235	23S55311W22	CAP, TAN. 4R7-1A-A -CP

Symbol No.	Part No.	Description
E351	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E352	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E353	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E354	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E355	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E356	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E357	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E358	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E359	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E360	23S65134W70	CAP, ELY 1R0-1H(4)-E2
E361	23S65134W31	CAP, ELY 10R-1C(4)-E2
E362	23S65134W31	CAP, ELY 10R-1C(4)-E2
E363	23S65134W31	CAP, ELY 10R-1C(4)-E2
E364	23S65134W31	CAP, ELY 10R-1C(4)-E2
E365	23S65134W31	CAP, ELY 10R-1C(4)-E2
E366	23S65134W31	CAP, ELY 10R-1C(4)-E2
E367	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E368	23S65134W53	CAP, ELY 4R7-1V(4)-E2
E602	23S65134W31	CAP, ELY 10R-1C(4)-E2

Resistors

L105	06S55365Y53	RES, RK 331J 1/10 -CP
L203	06S55364Y39	RES, RK JUMPER 1/8-CP
R101	06S55366Y38	RES, RK 105J 1/10 -CP
R102	06S55365Y41	RES, RK 101J 1/10 -CP
R103	06S55366Y06	RES, RK 473J 1/10 -CP
R104	06S55365Y41	RES, RK 101J 1/10 -CP
R105	06S55365Y97	RES, RK 223J 1/10 -CP
R106	06S55365Y41	RES, RK 101J 1/10 -CP
R107	06S55365Y97	RES, RK 223J 1/10 -CP
R109	06S55366Y14	RES, RK 104J 1/10 -CP
R110	06S55365Y73	RES, RK 222J 1/10 -CP
R111	06S55365Y41	RES, RK 101J 1/10 -CP
R115	06S55365Y41	RES, RK 101J 1/10 -CP
R116	06S55365Y73	RES, RK 222J 1/10 -CP
R117	06S55366Y14	RES, RK 104J 1/10 -CP
R118	06S55366Y14	RES, RK 104J 1/10 -CP
R119	06S55366Y14	RES, RK 104J 1/10 -CP
R120	06S55366Y02	RES, RK 333J 1/10 -CP
R121	06S55365Y41	RES, RK 101J 1/10 -CP
R122	06S55366Y39	RES, RK JUMPER1/10-CP
R123	06S55366Y39	RES, RK JUMPER1/10-CP
R124	06S55365Y41	RES, RK 101J 1/10 -CP
R125	06S55365Y41	RES, RK 101J 1/10 -CP
R126	06S55365Y41	RES, RK 101J 1/10 -CP
R128	06S55366Y38	RES, RK 105J 1/10 -CP
R129	06S55366Y39	RES, RK JUMPER1/10-CP

Symbol No.	Part No.	Description
R130	06S55365Y81	RES, RK 472J 1/10 -CP
R131	06S55365Y41	RES, RK 101J 1/10 -CP
R132	06S55365Y41	RES, RK 101J 1/10 -CP
R133	06S55365Y41	RES, RK 101J 1/10 -CP
R134	06S55365Y81	RES, RK 472J 1/10 -CP
R135	06S55365Y51	RES, RK 271J 1/10 -CP
R136	06S55365Y81	RES, RK 472J 1/10 -CP
R137	06S55365Y51	RES, RK 271J 1/10 -CP
R138	06S55365Y81	RES, RK 472J 1/10 -CP
R139	06S55366Y39	RES, RK JUMPER1/10-CP
R140	06S55365Y53	RES, RK 331J 1/10 -CP
R141	06S55365Y53	RES, RK 331J 1/10 -CP
R143	06S55366Y14	RES, RK 104J 1/10 -CP
R144	06S55366Y14	RES, RK 104J 1/10 -CP
R145	06S55366Y14	RES, RK 104J 1/10 -CP
R146	06S55366Y14	RES, RK 104J 1/10 -CP
R147	06S55366Y14	RES, RK 104J 1/10 -CP
R148	06S55366Y14	RES, RK 104J 1/10 -CP
R149	06S55366Y14	RES, RK 104J 1/10 -CP
R150	06S55366Y14	RES, RK 104J 1/10 -CP
R151	06S55366Y06	RES, RK 473J 1/10 -CP
R152	06S55366Y14	RES, RK 104J 1/10 -CP
R155	06S55365Y63	RES, RK 821J 1/10 -CP
R156	06S55365Y63	RES, RK 821J 1/10 -CP
R157	06S55365Y63	RES, RK 821J 1/10 -CP
R158	06S55365Y41	RES, RK 101J 1/10 -CP
R159	06S55365Y41	RES, RK 101J 1/10 -CP
R160	06S55366Y26	RES, RK 334J 1/10 -CP
R161	06S55366Y26	RES, RK 334J 1/10 -CP
R162	06S55366Y14	RES, RK 104J 1/10 -CP
R163	06S55366Y06	RES, RK 473J 1/10 -CP
R165	06S55365Y39	RES, RK 82RJ 1/10 -CP
R166	06S55365Y39	RES, RK 82RJ 1/10 -CP
R167	06S55365Y39	RES, RK 82RJ 1/10 -CP
R171	06S55366Y39	RES, RK JUMPER1/10-CP
R172	06S55366Y39	RES, RK JUMPER1/10-CP
R173	06S55366Y39	RES, RK JUMPER1/10-CP
R189	06S55366Y39	RES, RK JUMPER1/10-CP
R191	06S55364Y39	RES, RK JUMPER 1/8-CP
R192	06S55364Y39	RES, RK JUMPER 1/8-CP
R201	06S55365Y85	RES, RK 682J 1/10 -CP
R202	06S55365Y97	RES, RK 223J 1/10 -CP
R203	06S55366Y17	RES, RK 134J 1/10 -CP
R205	06S55365Y73	RES, RK 222J 1/10 -CP
R207	06S55365Y49	RES, RK 221J 1/10 -CP
R208	06S55365Y49	RES, RK 221J 1/10 -CP
R210	06S55366Y39	RES, RK JUMPER1/10-CP
R211	06S55366Y39	RES, RK JUMPER1/10-CP
R212	06S55366Y04	RES, RK 393J 1/10 -CP

Symbol No.	Part No.	Description
R213	06S55365Y98	RES, RK 243J 1/10 -CP
R214	06S55366Y32	RES, RK 564J 1/10 -CP
R215	06S55366Y39	RES, RK JUMPER1/10-CP
R216	06T25279Y02	RES, RK 155J 1/10 -CP
R218	06S55365Y41	RES, RK 101J 1/10 -CP
R220	06T25279Y02	RES, RK 155J 1/10 -CP
R222	06S55365Y65	RES, RK 102J 1/10 -CP
R223	06S55365Y97	RES, RK 223J 1/10 -CP
R224	06S55366Y34	RES, RK 684J 1/10 -CP
R225	06S55366Y08	RES, RK 563J 1/10 -CP
R226	06S55366Y08	RES, RK 563J 1/10 -CP
R227	06S55365Y67	RES, RK 122J 1/10 -CP
R228	06S55365Y67	RES, RK 122J 1/10 -CP
R229	06S55365Y69	RES, RK 152J 1/10 -CP
R230	06S55365Y69	RES, RK 152J 1/10 -CP
R231	06S55365Y75	RES, RK 272J 1/10 -CP
R232	06S55365Y75	RES, RK 272J 1/10 -CP
R233	06S55365Y92	RES, RK 133J 1/10 -CP
R234	06S55365Y92	RES, RK 133J 1/10 -CP
R235	06S55365Y97	RES, RK 223J 1/10 -CP
R236	06S55365Y97	RES, RK 223J 1/10 -CP
R237	06S55366Y08	RES, RK 563J 1/10 -CP
R238	06S55366Y08	RES, RK 563J 1/10 -CP
R239	06S55365Y67	RES, RK 122J 1/10 -CP
R240	06S55365Y67	RES, RK 122J 1/10 -CP
R241	06S55365Y69	RES, RK 152J 1/10 -CP
R242	06S55365Y69	RES, RK 152J 1/10 -CP
R243	06S55365Y75	RES, RK 272J 1/10 -CP
R244	06S55365Y75	RES, RK 272J 1/10 -CP
R245	06S55365Y92	RES, RK 133J 1/10 -CP
R246	06S55365Y92	RES, RK 133J 1/10 -CP
R247	06S55365Y97	RES, RK 223J 1/10 -CP
R248	06S55365Y97	RES, RK 223J 1/10 -CP
R249	06S55366Y08	RES, RK 563J 1/10 -CP
R250	06S55366Y08	RES, RK 563J 1/10 -CP
R251	06S55365Y67	RES, RK 122J 1/10 -CP
R252	06S55365Y67	RES, RK 122J 1/10 -CP
R253	06S55365Y69	RES, RK 152J 1/10 -CP
R254	06S55365Y69	RES, RK 152J 1/10 -CP
R255	06S55365Y75	RES, RK 272J 1/10 -CP
R256	06S55365Y75	RES, RK 272J 1/10 -CP
R257	06S55365Y92	RES, RK 133J 1/10 -CP
R258	06S55365Y92	RES, RK 133J 1/10 -CP
R259	06S55365Y97	RES, RK 223J 1/10 -CP
R260	06S55365Y97	RES, RK 223J 1/10 -CP
R261	06S55365Y62	RES, RK 751J 1/10 -CP
R262	06S55365Y62	RES, RK 751J 1/10 -CP
R263	06S55365Y67	RES, RK 122J 1/10 -CP
R264	06S55365Y67	RES, RK 122J 1/10 -CP

Symbol No.	Part No.	Description
R265	06S55365Y89	RES, RK 103J 1/10 -CP
R266	06S55365Y65	RES, RK 102J 1/10 -CP
R268	06S55362Y39	RES, RK JUMPER 1/4-CP
R269	06S55362Y39	RES, RK JUMPER 1/4-CP
R277	06S55366Y39	RES, RK JUMPER1/10-CP
R278	06S55366Y39	RES, RK JUMPER1/10-CP
R309	06S55366Y28	RES, RK 394J 1/10 -CP
R341	06S55366Y08	RES, RK 563J 1/10 -CP
R342	06S55366Y08	RES, RK 563J 1/10 -CP
R343	06S55365Y49	RES, RK 221J 1/10 -CP
R344	06S55365Y49	RES, RK 221J 1/10 -CP
R345	06S55365Y41	RES, RK 101J 1/10 -CP
R346	06S55365Y41	RES, RK 101J 1/10 -CP
R351	06S55366Y07	RES, RK 513J 1/10 -CP
R352	06S55366Y07	RES, RK 513J 1/10 -CP
R353	06S55365Y67	RES, RK 122J 1/10 -CP
R354	06S55365Y67	RES, RK 122J 1/10 -CP
R355	06S55365Y69	RES, RK 152J 1/10 -CP
R356	06S55365Y69	RES, RK 152J 1/10 -CP
R357	06S55365Y75	RES, RK 272J 1/10 -CP
R358	06S55365Y75	RES, RK 272J 1/10 -CP
R359	06S55365Y94	RES, RK 163J 1/10 -CP
R360	06S55365Y94	RES, RK 163J 1/10 -CP
R361	06S55365Y96	RES, RK 203J 1/10 -CP
R362	06S55365Y96	RES, RK 203J 1/10 -CP
R363	06S55366Y07	RES, RK 513J 1/10 -CP
R364	06S55366Y07	RES, RK 513J 1/10 -CP
R365	06S55365Y67	RES, RK 122J 1/10 -CP
R366	06S55365Y67	RES, RK 122J 1/10 -CP
R367	06S55365Y69	RES, RK 152J 1/10 -CP
R368	06S55365Y69	RES, RK 152J 1/10 -CP
R369	06S55365Y75	RES, RK 272J 1/10 -CP
R370	06S55365Y75	RES, RK 272J 1/10 -CP
R371	06S55365Y94	RES, RK 163J 1/10 -CP
R372	06S55365Y94	RES, RK 163J 1/10 -CP
R373	06S55365Y96	RES, RK 203J 1/10 -CP
R374	06S55365Y96	RES, RK 203J 1/10 -CP
R375	06S55366Y07	RES, RK 513J 1/10 -CP
R376	06S55366Y07	RES, RK 513J 1/10 -CP
R377	06S55365Y67	RES, RK 122J 1/10 -CP
R378	06S55365Y67	RES, RK 122J 1/10 -CP
R379	06S55365Y69	RES, RK 152J 1/10 -CP
R380	06S55365Y69	RES, RK 152J 1/10 -CP
R381	06S55365Y75	RES, RK 272J 1/10 -CP
R382	06S55365Y75	RES, RK 272J 1/10 -CP
R383	06S55365Y94	RES, RK 163J 1/10 -CP
R384	06S55365Y94	RES, RK 163J 1/10 -CP
R385	06S55365Y96	RES, RK 203J 1/10 -CP
R386	06S55365Y96	RES, RK 203J 1/10 -CP

Symbol No.	Part No.	Description
R387	06S55366Y08	RES, RK 563J 1/10 -CP
R388	06S55366Y08	RES, RK 563J 1/10 -CP
R389	06S55365Y49	RES, RK 221J 1/10 -CP
R390	06S55365Y49	RES, RK 221J 1/10 -CP
R391	06S55365Y41	RES, RK 101J 1/10 -CP
R392	06S55365Y41	RES, RK 101J 1/10 -CP
R393	06S55366Y08	RES, RK 563J 1/10 -CP
R394	06S55366Y08	RES, RK 563J 1/10 -CP
R395	06S55365Y49	RES, RK 221J 1/10 -CP
R396	06S55365Y49	RES, RK 221J 1/10 -CP
R397	06S55365Y41	RES, RK 101J 1/10 -CP
R398	06S55365Y41	RES, RK 101J 1/10 -CP
R671	06S55361Y65	RES, RK 102J 1/4 -CP
R672	06S55365Y89	RES, RK 103J 1/10 -CP
RA101	06S45591W02	RES, ARY MNR473J 4-CP
RA102	06S45591W18	RES, ARY MNRJUMPER4CP
RA103	06S45591W03	RES, ARY MNR104J 4-CP
RA104	06S45591W03	RES, ARY MNR104J 4-CP
RA105	06S45591W03	RES, ARY MNR104J 4-CP
RA201	06S45591W06	RES, ARY MNR102J 4-CP

Connectors

CB102	09T45391Y22	FFC, IMSA9632S-22Y-ED
CB103	09T45391Y45	FFC, IMSA9632S-45Y-EQ
CB201	09T25738Y03	WTB, 53254-0310 -DB
CB351	09T25738Y09	WTB, 53254-0910 -DB
CB661	09T25738Y03	WTB, 53254-0310 -DB
CB813	09T35440Y32	BTB, IMSA9850S-32Y-EZ

Front P.W.Board

IC's

IC401	51T45460Y34	MTP, M30803FGGP
IC403	51T35614Y01	SBX3050-02 -NE5
IC405	51T55145Y01	IC, MX23C3210-XXX-SEK
IC406	51T55436Y01	IC, MX23C3210-XXX-SEK
IC442	51T25532Y01	TC74VHC00FT -SE5
IC443	51T25532Y01	TC74VHC00FT -SE5
IC444	51T25532Y01	TC74VHC00FT -SE5
IC451	51T95048W01	BA3834F -SE9

Symbol No.	Part No.	Description
Transistors		
Q401	48T63788F04	TR, CP, 2SD1328-T -TX
Q402	48T63788F04	TR, CP, 2SD1328-T -TX
Q403	48T63788F04	TR, CP, 2SD1328-T -TX
Q404	48T45251W06	TR, UN5211 10-10 -CP
Q405	48T45251W06	TR, UN5211 10-10 -CP
Q406	48T45251W06	TR, UN5211 10-10 -CP
Q407	48T45251W09	TR, UN521F-TX -CP
Q408	48T45251W06	TR, UN5211 10-10 -CP
Q410	48T45251W01	TR, UN5213 47-47 -CP
Q411	48T45251W09	TR, UN521F-TX -CP
Q412	48T35548Y04	TR, 2SB710A-S-TX -CP
Q413	48T45251W08	TR, UN521L-TX -CP
Q414	48T45251W03	TR, UN5212 22-22 -CP
Q415	48T94582F01	TR, CP 2SC4081-Q
Q416	48T55457Y01	TR, 2SB1260-QR-100-E2
Q420	48T63788F04	TR, CP, 2SD1328-T -TX
Q451	48T45251W03	TR, UN5212 22-22 -CP
Diodes		
D401	48T15707Y01	DIO, MA133-TX -CP
D402	48T15707Y01	DIO, MA133-TX -CP
D403	48T15707Y01	DIO, MA133-TX -CP
D404	48T15707Y01	DIO, MA133-TX -CP
D405	48T15707Y01	DIO, MA133-TX -CP
D406	48T15707Y01	DIO, MA133-TX -CP
D407	48T45254W03	DIO, SI-MA142WK -CP
LED's		
LD401	48T15110Y02	LED, A/G AABG1211C-CP
LD402	48T15110Y02	LED, A/G AABG1211C-CP
LD403	48T15110Y02	LED, A/G AABG1211C-CP
LD404	48T15110Y02	LED, A/G AABG1211C-CP
LD405	48T15110Y02	LED, A/G AABG1211C-CP
LD406	48T15110Y02	LED, A/G AABG1211C-CP
LD407	48T15110Y02	LED, A/G AABG1211C-CP
LD408	48T15110Y02	LED, A/G AABG1211C-CP
LD409	48T15110Y02	LED, A/G AABG1211C-CP
LD410	48T15110Y02	LED, A/G AABG1211C-CP
LD411	48T15110Y02	LED, A/G AABG1211C-CP
LD412	48T15110Y02	LED, A/G AABG1211C-CP
LD413	48T15110Y02	LED, A/G AABG1211C-CP
LD414	48T15110Y02	LED, A/G AABG1211C-CP
LD415	48T15110Y02	LED, A/G AABG1211C-CP

Symbol No.	Part No.	Description
LD416	48T15110Y02	LED, A/G AABG1211C-CP
LD417	48T15110Y02	LED, A/G AABG1211C-CP
LD418	48T15110Y02	LED, A/G AABG1211C-CP
LD419	48T15110Y02	LED, A/G AABG1211C-CP
LD420	48T15110Y02	LED, A/G AABG1211C-CP
LD421	48T65477W03	LED, SML-010PTT87 -CP(GRN)
LD423	48T15110Y02	LED, A/G AABG1211C-CP
LD424	48T25534Y03	LED, AMB AA1111C -CP
LD425	48T25534Y03	LED, AMB AA1111C -CP
LD426	48T25534Y01	LED, GRN BG1111C -CP
LD427	48T25534Y01	LED, GRN BG1111C -CP
LD428	48T15110Y02	LED, A/G AABG1211C-CP
LD429	48T25534Y03	LED, AMB AA1111C -CP
LD430	48T25534Y03	LED, AMB AA1111C -CP
LD432	48T65477W03	LED, SML-010PTT87 -CP(GRN)
LD433	48T65477W03	LED, SML-010PTT87 -CP(GRN)
LD434	48T25534Y03	LED, AMB AA1111C -CP
LD435	48T25534Y03	LED, AMB AA1111C -CP
LD436	48T25534Y03	LED, AMB AA1111C -CP
LD437	48T25534Y03	LED, AMB AA1111C -CP
LD438	48T25534Y03	LED, AMB AA1111C -CP
LD439	48T25534Y03	LED, AMB AA1111C -CP
LD440	48T25534Y03	LED, AMB AA1111C -CP
LD441	48T25534Y02	LED, RED BR1111C -CP
LD442	48T25534Y01	LED, GRN BG1111C -CP
LD444	48T25534Y03	LED, AMB AA1111C -CP

Switches

SW401	40T25004Y01	SW, TACT SKQYPB -E2(1/AF)
SW402	40T25004Y01	SW, TACT SKQYPB -E2(2/ABC/P.PTY)
SW403	40T25004Y01	SW, TACT SKQYPB -E2(3/DEF/PTY)
SW404	40T25004Y01	SW, TACT SKQYPB -E2(4/GHI/P/S)
SW405	40T25004Y01	SW, TACT SKQYPB -E2(5/JKL)
SW406	40T25004Y01	SW, TACT SKQYPB -E2(6/MNO)
SW407	40T25004Y01	SW, TACT SKQYPB -E2 (7/PQRS/FOLDER-DN)
SW408	40T25004Y01	SW, TACT SKQYPB -E2 (8/TUV/FOLDER-UP)
SW409	40T25004Y01	SW, TACT SKQYPB -E2 (9/WXYZ/FILE SEARCH)
SW410	40T25004Y01	SW, TACT SKQYPB -E2(0/REPEAT)
SW411	40T25004Y01	SW, TACT SKQYPB -E2(*/+/M.I.X.)
SW412	40T25004Y01	SW, TACT SKQYPB -E2(#/SCAN)
SW413	40T25004Y01	SW, TACT SKQYPB -E2(MENU/ENTER)
SW414	40T25004Y01	SW, TACT SKQYPB -E2 (PHONE BOOK/CANCEL)
SW415	40T25004Y01	SW, TACT SKQYPB -E2 (ANGLE · UP/DOWN)
SW416	40T25004Y01	SW, TACT SKQYPB -E2(TEL-ON)
SW417	40T25004Y01	SW, TACT SKQYPB -E2(TEL-OFF)
SW418	40T25004Y01	SW, TACT SKQYPB -E2(EJECT)
SW419	40T25004Y01	SW, TACT SKQYPB -E2(F/SETUP)
SW420	40T25004Y01	SW, TACT SKQYPB -E2(T. INFO)
SW421	40T25004Y01	SW, TACT SKQYPB -E2(EQ)
SW422	40T25004Y01	SW, TACT SKQYPB -E2 (T.CORR/X-OVER)
SW423	40T25004Y01	SW, TACT SKQYPB -E2(MX)
SW424	40T25004Y01	SW, TACT SKQYPB -E2(BWD/DN)
SW426	40T25004Y01	SW, TACT SKQYPB -E2(MODE/Q.S.)
SW427	40T25004Y01	SW, TACT SKQYPB -E2(TITLE)
SW428	40T25004Y01	SW, TACT SKQYPB -E2(DISP/B.OUT)
SW429	40T25004Y01	SW, TACT SKQYPB -E2 (PLAY/PAUSE/TUNE/A.ME)
SW430	40T25004Y01	SW, TACT SKQYPB -E2(SOURCE/POWER)
SW431	40T25004Y01	SW, TACT SKQYPB -E2(BAND)
SW432	40T25004Y01	SW, TACT SKQYPB -E2(FWD/UP)
SW433	40T25004Y01	SW, TACT SKQYPB -E2(RESET)
SW435	40T55430Y01	SW, TACT SKQTLBE010E5(RESET)

Coils

L401	24T16403W15	COI, IND. 1R0-M K -CP
L402	24T16403W15	COI, IND. 1R0-M K -CP
L403	24T16403W15	COI, IND. 1R0-M K -CP
L404	24T16403W15	COI, IND. 1R0-M K -CP
L405	24T16403W19	COI, IND. 2R2-M K -CP
L406	24T16403W15	COI, IND. 1R0-M K -CP
L407	24T16403W15	COI, IND. 1R0-M K -CP
L412	24T16403W15	COI, IND. 1R0-M K -CP
L413	24T16403W15	COI, IND. 1R0-M K -CP
L414	24T16403W15	COI, IND. 1R0-M K -CP

Filters

Z401	91T15058Y07	EMI, NFE31PT222Z1E-CP
Z402	91T15058Y07	EMI, NFE31PT222Z1E-CP
Z404	91T15058Y07	EMI, NFE31PT222Z1E-CP
Z405	91T15058Y07	EMI, NFE31PT222Z1E-CP
Z406	91T15058Y07	EMI, NFE31PT222Z1E-CP

Crystal

XL401	91T95084W04	XTL, CS20 20.000M -E9

Symbol No.	Part No.	Description
Lamp		
PL401	65T55346Y01	LAMP, GRN 6-80 -E5
Capacitors		
C401	08S45676W80	CAP, CER 223K-B1E -CP
C402	08S35350Y05	CAP, CER 105K-B1A -CP
C403	08S45676W85	CAP, CER 104K-B1C -CP
C404	08S35350Y05	CAP, CER 105K-B1A -CP
C405	08S45677W14	CAP, CER. 12RJ-CH1H-CP
C406	08S45677W16	CAP, CER. 15RJ-CH1H-CP
C407	08S35349Y12	CAP, CER 105K-B0J -CP
C408	08S60102F48	CAP, CER 105K-B1E -CP
C409	08S35350Y05	CAP, CER 105K-B1A -CP
C410	08S35350Y05	CAP, CER 105K-B1A -CP
C411	08S60102F48	CAP, CER 105K-B1E -CP
C412	08S45676W73	CAP, CER. 103K-B1H -CP
C413	08S35374W01	CAP, CER 104K-B1E-CP
C414	08S35350Y05	CAP, CER 105K-B1A -CP
C415	08S35350Y05	CAP, CER 105K-B1A -CP
C418	08S35349Y08	CAP, CER 102K-B1H -CP
C419	08S35349Y08	CAP, CER 102K-B1H -CP
C420	08S35349Y08	CAP, CER 102K-B1H -CP
C421	08S60102F48	CAP, CER 105K-B1E -CP
C422	08S35350Y04	CAP, CER 105K-B1C -CP
C423	08S45676W80	CAP, CER 223K-B1E -CP
C451	08S45676W80	CAP, CER 223K-B1E -CP
C452	08S45676W85	CAP, CER 104K-B1C -CP
C453	08S45676W85	CAP, CER 104K-B1C -CP
C454	08S45676W80	CAP, CER 223K-B1E -CP
C455	08S45676W80	CAP, CER 223K-B1E -CP
C456	08S45676W80	CAP, CER 223K-B1E -CP
C473	08S35350Y05	CAP, CER 105K-B1A -CP
C474	08S35350Y05	CAP, CER 105K-B1A -CP
C475	08S35350Y05	CAP, CER 105K-B1A -CP
E401	23T15765Y22	CAP, TAN 33R-1C-F -E2
E402	23T15765Y22	CAP, TAN 33R-1C-F -E2
E451	23S55311W42	CAP, TAN. 4R7-1D-B -CP
Resistors		
R400	06S55365Y65	RES, RK 102J 1/10 -CP
R401	06S55365Y65	RES, RK 102J 1/10 -CP
R403	06S55365Y97	RES, RK 223J 1/10 -CP
R404	06S55365Y87	RES, RK 822J 1/10 -CP
R405	06S55365Y87	RES, RK 822J 1/10 -CP
R406	06S55361Y55	RES, RK 391J 1/4 -CP
R409	06S55365Y87	RES, RK 822J 1/10 -CP
R412	06S55365Y97	RES, RK 223J 1/10 -CP
R413	06S55365Y87	RES, RK 822J 1/10 -CP
R414	06S55365Y65	RES, RK 102J 1/10 -CP
R415	06S55366Y06	RES, RK 473J 1/10 -CP
R416	06S55366Y06	RES, RK 473J 1/10 -CP
R417	06S55365Y65	RES, RK 102J 1/10 -CP
R418	06S55365Y41	RES, RK 101J 1/10 -CP
R419	06S55365Y87	RES, RK 822J 1/10 -CP
R420	06S55361Y55	RES, RK 391J 1/4 -CP
R421	06S55361Y48	RES, RK 201J 1/4 -CP
R422	06S55361Y55	RES, RK 391J 1/4 -CP
R423	06S55361Y48	RES, RK 201J 1/4 -CP
R424	06S55361Y55	RES, RK 391J 1/4 -CP
R425	06S55361Y48	RES, RK 201J 1/4 -CP
R426	06S55361Y55	RES, RK 391J 1/4 -CP
R427	06S55361Y48	RES, RK 201J 1/4 -CP
R428	06S55361Y55	RES, RK 391J 1/4 -CP
R429	06S55361Y48	RES, RK 201J 1/4 -CP
R430	06S55361Y55	RES, RK 391J 1/4 -CP
R431	06S55361Y48	RES, RK 201J 1/4 -CP
R432	06S55361Y55	RES, RK 391J 1/4 -CP
R433	06S55361Y48	RES, RK 201J 1/4 -CP
R434	06S55361Y63	RES, RK 821J 1/4 -CP
R435	06S55361Y57	RES, RK 471J 1/4 -CP
R436	06S55361Y55	RES, RK 391J 1/4 -CP
R437	06S55361Y48	RES, RK 201J 1/4 -CP
R438	06S55361Y55	RES, RK 391J 1/4 -CP
R439	06S55361Y53	RES, RK 331J 1/4 -CP
R440	06S55361Y55	RES, RK 391J 1/4 -CP
R441	06S55361Y55	RES, RK 391J 1/4 -CP
R442	06S55361Y55	RES, RK 391J 1/4 -CP
R443	06S55361Y77	RES, RK 332J 1/4 -CP
R444	06S55361Y58	RES, RK 511J 1/4 -CP
R445	06S55365Y73	RES, RK 222J 1/10 -CP
R446	06S55365Y73	RES, RK 222J 1/10 -CP
R447	06S55365Y81	RES, RK 472J 1/10 -CP
R450	06S55366Y39	RES, RK JUMPER1/10-CP
R451	06S55366Y10	RES, RK 683J 1/10 -CP
R452	06S55366Y24	RES, RK 274J 1/10 -CP
R453	06S55366Y19	RES, RK 164J 1/10 -CP
R454	06S55365Y65	RES, RK 102J 1/10 -CP
R455	06S55366Y39	RES, RK JUMPER1/10-CP
R456	06S55366Y06	RES, RK 473J 1/10 -CP
R457	06S55366Y39	RES, RK JUMPER1/10-CP
R458	06S55366Y06	RES, RK 473J 1/10 -CP
R460	06S55365Y89	RES, RK 103J 1/10 -CP
R463	06S55365Y98	RES, RK 243J 1/10 -CP

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Symbol No.	Part No.	Description
R464	06S55365Y41	RES, RK 101J 1/10 -CP
R465	06S55365Y67	RES, RK 122J 1/10 -CP
R466	06S55365Y69	RES, RK 152J 1/10 -CP
R467	06S55365Y73	RES, RK 222J 1/10 -CP
R468	06S55365Y77	RES, RK 332J 1/10 -CP
R469	06S55365Y83	RES, RK 562J 1/10 -CP
R470	06S55365Y67	RES, RK 122J 1/10 -CP
R471	06S55365Y57	RES, RK 471J 1/10 -CP
R472	06S55365Y69	RES, RK 152J 1/10 -CP
R473	06S55365Y73	RES, RK 222J 1/10 -CP
R474	06S55365Y77	RES, RK 332J 1/10 -CP
R475	06S55365Y83	RES, RK 562J 1/10 -CP
R476	06S55365Y67	RES, RK 122J 1/10 -CP
R477	06S55365Y69	RES, RK 152J 1/10 -CP
R478	06S55365Y73	RES, RK 222J 1/10 -CP
R479	06S55365Y77	RES, RK 332J 1/10 -CP
R480	06S55365Y83	RES, RK 562J 1/10 -CP
R481	06S55365Y67	RES, RK 122J 1/10 -CP
R482	06S55365Y69	RES, RK 152J 1/10 -CP
R483	06S55365Y73	RES, RK 222J 1/10 -CP
R484	06S55365Y77	RES, RK 332J 1/10 -CP
R485	06S55365Y97	RES, RK 223J 1/10 -CP
R486	06S55365Y73	RES, RK 222J 1/10 -CP
R488	06S55361Y57	RES, RK 471J 1/4 -CP
R489	06S55366Y39	RES, RK JUMPER1/10-CP
R490	06S55365Y83	RES, RK 562J 1/10 -CP
R491	06S55365Y41	RES, RK 101J 1/10 -CP
R492	06S55365Y41	RES, RK 101J 1/10 -CP
R493	06S55365Y91	RES, RK 123J 1/10 -CP
R494	06S55365Y67	RES, RK 122J 1/10 -CP
R495	06S55365Y69	RES, RK 152J 1/10 -CP
R496	06S55365Y73	RES, RK 222J 1/10 -CP
R497	06S55365Y77	RES, RK 332J 1/10 -CP
R498	06S55365Y83	RES, RK 562J 1/10 -CP
R1010	06S55365Y98	RES, RK 243J 1/10 -CP
R1011	06S55361Y77	RES, RK 332J 1/4 -CP
R1012	06S55361Y77	RES, RK 332J 1/4 -CP
R1013	06S55365Y77	RES, RK 332J 1/10 -CP
R1014	06S55365Y81	RES, RK 472J 1/10 -CP
R1016	06S55365Y41	RES, RK 101J 1/10 -CP
R1017	06S55366Y06	RES, RK 473J 1/10 -CP
R1018	06S55361Y73	RES, RK 222J 1/4 -CP
R1019	06S55361Y73	RES, RK 222J 1/4 -CP
R1021	06S55366Y06	RES, RK 473J 1/10 -CP
RA401	06S45591W06	RES, ARY MNR102J 4-CP
RA412	06S45591W06	RES, ARY MNR102J 4-CP
RA450	06S45591W07	RES, ARY MNR101J 4-CP
RA451	06S45591W07	RES, ARY MNR101J 4-CP
RA452	06S45591W07	RES, ARY MNR101J 4-CP
RA453	06S45591W07	RES, ARY MNR101J 4-CP
RA454	06S45591W07	RES, ARY MNR101J 4-CP
RA455	06S45591W07	RES, ARY MNR101J 4-CP
RA456	06S45591W07	RES, ARY MNR101J 4-CP
RA457	06S45591W07	RES, ARY MNR101J 4-CP
RA458	06S45591W07	RES, ARY MNR101J 4-CP
RA459	06S45591W07	RES, ARY MNR101J 4-CP
RA460	06S45591W07	RES, ARY MNR101J 4-CP
RA461	06S45591W07	RES, ARY MNR101J 4-CP
Connectors		
CB401	09T45507Y26	FFC, IMSA9631S-26Y-ED
CB440	09T45391Y40	FFC, IMSA9632S-40Y-EQ
CB441	09T45391Y30	FFC, IMSA9632S-30Y-ED
DC/DC P.W.Board		
IC's		
IC901	51T45446Y01	NJM78L09A-T3 -RD
IC902	51T45447Y01	NJM79L09A-T3 -RD
IC951	51T15131Y01	NJM2360AM-TE2 -SE6
Transistors		
Q901	48T69176F02	TR , 2SC3421-Y
Q902	48T55057W01	TR, 2SD1857-PQ-TV2-RD
Q903	48T55057W01	TR, 2SD1857-PQ-TV2-RD
Q904	48T45594W12	TR , XN1A312 -TX-CP
Q951	48T35569Y01	TR, 2SD1802-TL -E5
Diodes		
D901	48T55535Y01	DIO, BAV20W -CP
D902	48T55535Y01	DIO, BAV20W -CP
D903	48T55535Y01	DIO, BAV20W -CP
D904	48T55535Y01	DIO, BAV20W -CP
SD951	48T65122W01	DIO, SHT SS14-6600-E1
ZD901	48T25766W25	DIO, ZEN, HZS 9C2L -R5
Coils		
L901	24T95399W21	IND, RCH-855 471K +
L951	24T25565Y11	IND, SLF12565 221M-EA
L952	24T15313Y17	IND, CDRH104 221M -E6
Transformer		
T901	25T95401W01	TRANS, LC-10 -DB
Thermistor		
TH901	48T25250Y06	TMT, ERTJ1VR223G -CP
Capacitors		
C902	08T55390W22	CAP, TF 273J-1H -R5
C951	08S65128F78	CAP, CER, 223K-B1H -CP
C952	08S45677W38	CAP, CER 121J-CH1H-CP
C953	08S60102F48	CAP, CER 105K-B1E -CP
E901	23T45365W05	CAP, SME 101-1E -R2
E902	23T45365W11	CAP, SME 1R0-1H -R2
E903	23T45365W05	CAP, SME 101-1E -R2
E904	23T75489W22	CAP, PS 101-1E -R2
E905	23T75489W22	CAP, PS 101-1E -R2
E906	23T45365W03	CAP, SME 221-1A -R2
E907	23T45365W03	CAP, SME 221-1A -R2
E951	23T45213Y05	CAP, UD 471-1C -EA
E952	23T45213Y07	CAP, UD 331-1E -EA
Resistors		
R901	06S55361Y15	RES, RK 8R2J 1/4 -CP
R903	06S55364Y23	RES, RK 244J 1/8 -CP
R906	06S55364Y32	RES, RK 564J 1/8 -CP
R907	06S55364Y32	RES, RK 564J 1/8 -CP
R918	06S55361Y85	RES, RK 682J 1/4 -CP
R921	06S55361Y50	RES, RK 241J 1/4 -CP
R922	06S55364Y32	RES, RK 564J 1/8 -CP
R951	06S55361Y50	RES, RK 241J 1/4 -CP
R952	06S70072F90	RES, CP , 1R0-J-1/4-CP
R953	06S70072F90	RES, CP , 1R0-J-1/4-CP
R954	06S70072F90	RES, CP , 1R0-J-1/4-CP
R955	06S70072F90	RES, CP , 1R0-J-1/4-CP
R956	06S55361Y47	RES, RK 181J 1/4 -CP
R957	06S15593Y59	RES, RK 272F 1/10 -CP
R958	06S15593Y84	RES, RK 303F 1/10 -CP
R959	06S15593Y57	RES, RK 222F 1/10 -CP
R960	06S15593Y76	RES, RK 133F 1/10 -CP
Connector		
CB901	09T25436Y09	WTB, 53253-0910 -DB
D-OUT P.W.Board		
Capacitor		
C133	08S65128F79	CAP, CER, 273K-B1H -CP
Resistor		
R199	06S55361Y87	RES, RK 822J 1/4 -CP
DP-Main P.W.Board		
IC's		
IC101	51T55083Y01	TA2157FN-EL -SE6
IC102	51T55086Y01	TC94A14FA -QT
IC103	51T25503Y01	BA5985FM-E2 -SEA
IC104	51T35257Y01	BD6609FV-E2 -SE2
IC105	51T35664Y01	NJM2403M-TE3 -SE2
IC801	51T25711Y01	BA033SFP-E2 -NE5
Transistors/Photo Transistors		
PT101	48T35389Y01	PHT, TR PS1101W-TR-CP
PT102	48T35389Y01	PHT, TR PS1101W-TR-CP
PT103	48T35389Y01	PHT, TR PS1101W-TR-CP
Q101	48T55462Y01	TR, 2SB1132-QR-100-E2
Q102	48T45388Y03	TR, 2SA1797-Q-T100-E2
Q103	48T45251W53	TR , UN5112 22-22 -CP
Q801	48T73888F13	TR , CP FMC3-99
Q802	48T45594W12	TR , XN1A312 -TX-CP

Symbol No.	Part No.	Description
Diodes		
D101	48T52446F01	DIO, MA151WK SO/TX-CP
D102	48T52446F01	DIO, MA151WK SO/TX-CP
D103	48T52446F01	DIO, MA151WK SO/TX-CP
SD101	48T65122W01	DIO, SHT SS14-6600-E1
Coil		
L101	24T55448W16	IND, CD43 22RM -E2
Filter		
L102	91T15509Y08	EMI, BK1608HM102 -CP
Capacitors		
C101	08S45676W73	CAP, CER, 103K-B1H -CP
C102	08S45676W80	CAP, CER 223K-B1E -CP
C103	08S45676W80	CAP, CER 223K-B1E -CP
C105	08S45676W89	CAP, CER 473K-B1E -CP
C106	08S45676W89	CAP, CER 473K-B1E -CP
C107	08S45677W03	CAP, CER 1R5C-CH1H-CP
C108	08S45677W20	CAP, CER, 22RJ-CH1H-CP
C109	08S45676W85	CAP, CER 104K-B1C -CP
C110	08S45676W85	CAP, CER 104K-B1C -CP
C111	08S45676W69	CAP, CER, 472K-B1H -CP
C112	08S45676W71	CAP, CER, 682K-B1H -CP
C113	08S45676W85	CAP, CER 104K-B1C -CP
C114	08S45677W28	CAP, CER 47RJ-CH1H-CP
C115	08S45676W75	CAP, CER, 153K-B1H -CP
C116	08S45676W73	CAP, CER, 103K-B1H -CP
C117	08S45676W66	CAP, CER, 272K-B1H -CP
C118	08S45676W73	CAP, CER, 103K-B1H -CP
C119	08S45676W85	CAP, CER 104K-B1C -CP
C120	08S45676W85	CAP, CER 104K-B1C -CP
C121	08S45676W87	CAP, CER 333K-B1E -CP
C122	08S45677W20	CAP, CER, 22RJ-CH1H-CP
C123	08S35349Y09	CAP, CER 122K-B1H -CP
C124	08S45676W65	CAP, CER, 222K-B1H -CP
C125	08S45676W73	CAP, CER, 103K-B1H -CP
C126	08S45676W89	CAP, CER 473K-B1E -CP
C127	08S45676W89	CAP, CER 473K-B1E -CP
C128	08S45676W73	CAP, CER, 103K-B1H -CP
C129	08S35350Y05	CAP, CER 105K-B1A -CP
C131	08S45676W85	CAP, CER 104K-B1C -CP
C132	08S45676W85	CAP, CER 104K-B1C -CP

Symbol No.	Part No.	Description
C135	08S45676W73	CAP, CER, 103K-B1H -CP
C136	08S45676W85	CAP, CER 104K-B1C -CP
C137	08S45676W85	CAP, CER 104K-B1C -CP
C138	08S45676W80	CAP, CER 223K-B1E -CP
C139	08S45676W85	CAP, CER 104K-B1C -CP
C140	08S45676W80	CAP, CER 223K-B1E -CP
C141	08S45676W86	CAP, CER 273K-B1E -CP
C142	08S45676W86	CAP, CER 273K-B1E -CP
C143	08S45676W86	CAP, CER 273K-B1E -CP
C144	08S35350Y05	CAP, CER 105K-B1A -CP
C145	08S45676W80	CAP, CER 223K-B1E -CP
C146	08S45676W80	CAP, CER 223K-B1E -CP
C147	08S45677W42	CAP, CER, 181J-CH1H-CP
C149	08S45676W65	CAP, CER, 222K-B1H -CP
C150	08S45676W65	CAP, CER, 222K-B1H -CP
C151	08S45676W85	CAP, CER 104K-B1C -CP
C153	08S45676W85	CAP, CER 104K-B1C -CP
C801	08S45676W85	CAP, CER 104K-B1C -CP
C802	08S35374W07	CAP, CER 334K-B1C -CP
C803	08S45676W85	CAP, CER 104K-B1C -CP
E101	23S55311W26	CAP, TAN 10R-1A-A -CP
E102	23T25191W60	CAP, MF 47R-0G-C6-E2
E103	23S55311W26	CAP, TAN 10R-1A-A -CP
E104	23S55311W26	CAP, TAN 10R-1A-A -CP
E105	23S55311W26	CAP, TAN 10R-1A-A -CP
E106	23S55311W28	CAP, TAN 22R-1A-B -CP
E107	23T25191W62	CAP, E-MF22R-0J-B6-E2
E108	23T25191W62	CAP, E-MF22R-0J-B6-E2
E109	23S55311W26	CAP, TAN 10R-1A-A -CP
E111	23T25191W67	CAP, E-MF10R-1C-B6-E2
E112	23T25191W67	CAP, E-MF10R-1C-B6-E2
E113	23S55311W57	CAP, TAN 22R-1E-E -E2
E114	23S55311W26	CAP, TAN 10R-1A-A -CP
E801	23S55311W28	CAP, TAN 22R-1A-B -CP
Resistors		
R101	06S45675W02	RES, RK 683J 1/10 -CP
R102	06T25278Y05	RES, RK 913J 1/10 -CP
R103	06T25278Y05	RES, RK 913J 1/10 -CP
R104	06S45675W02	RES, RK 683J 1/10 -CP
R105	06S45675W45	RES, RK 1ROJ 1/10 -CP
R107	06T25277Y92	RES, RK 303J 1/10 -CP
R109	06S45674W81	RES, RK 103J 1/10 -CP
R110	06S45674W89	RES, RK 223J 1/10 -CP
R111	06S45674W81	RES, RK 103J 1/10 -CP
R112	06T25277Y78	RES, RK 752J 1/10 -CP
R113	06S45674W33	RES, RK 101J 1/10 -CP

Symbol No.	Part No.	Description
R114	06S45674W97	RES, RK 473J 1/10 -CP
R115	06S45674W57	RES, RK 102J 1/10 -CP
R116	06S45674W57	RES, RK 102J 1/10 -CP
R117	06S45674W75	RES, RK 562J 1/10 -CP
R118	06S45674W97	RES, RK 473J 1/10 -CP
R119	06S45675W22	RES, RK 474J 1/10 -CP
R120	06S45675W34	RES, RK 225J 1/10 -CP
R121	06S45674W85	RES, RK 153J 1/10 -CP
R122	06S45674W81	RES, RK 103J 1/10 -CP
R124	06S45674W69	RES, RK 332J 1/10 -CP
R125	06S45674W69	RES, RK 332J 1/10 -CP
R126	06S45674W57	RES, RK 102J 1/10 -CP
R127	06S45674W33	RES, RK 101J 1/10 -CP
R128	06S45674W57	RES, RK 102J 1/10 -CP
R129	06S45674W33	RES, RK 101J 1/10 -CP
R130	06S45674W57	RES, RK 102J 1/10 -CP
R131	06S45674W33	RES, RK 101J 1/10 -CP
R132	06S45674W73	RES, RK 472J 1/10 -CP
R133	06S45674W33	RES, RK 101J 1/10 -CP
R134	06S45674W97	RES, RK 473J 1/10 -CP
R135	06S45674W81	RES, RK 103J 1/10 -CP
R136	06S45674W57	RES, RK 102J 1/10 -CP
R137	06S45674W57	RES, RK 102J 1/10 -CP
R138	06S45674W65	RES, RK 222J 1/10 -CP
R139	06S45674W73	RES, RK 472J 1/10 -CP
R140	06T25277Y78	RES, RK 752J 1/10 -CP
R141	06S45674W77	RES, RK 682J 1/10 -CP
R142	06S45674W33	RES, RK 101J 1/10 -CP
R143	06S45674W89	RES, RK 223J 1/10 -CP
R144	06S70072F90	RES, CP .1R0-J-1/4-CP
R145	06S70072F90	RES, CP .1R0-J-1/4-CP
R146	06S45674W81	RES, RK 103J 1/10 -CP
R147	06S45674W91	RES, RK 273J 1/10 -CP
R148	06S45674W99	RES, RK 563J 1/10 -CP
R149	06S45674W76	RES, RK 622J 1/10 -CP
R150	06S45674W89	RES, RK 223J 1/10 -CP
R151	06S45674W81	RES, RK 103J 1/10 -CP
R152	06S45674W81	RES, RK 103J 1/10 -CP
R153	06S45675W06	RES, RK 104J 1/10 -CP
R155	06S45674W43	RES, RK 271J 1/10 -CP
R156	06S45674W43	RES, RK 271J 1/10 -CP
R157	06S45674W97	RES, RK 473J 1/10 -CP
R158	06S45674W89	RES, RK 223J 1/10 -CP
R159	06S45674W95	RES, RK 393J 1/10 -CP
R160	06S55365Y46	RES, RK 161J 1/10 -CP
R161	06S45675W20	RES, RK 394J 1/10 -CP
R162	06S45675W43	RES, RK JUMPER1/10-CP
R164	06S45674W45	RES, RK 331J 1/10 -CP
R801	06S45674W89	RES, RK 223J 1/10 -CP

Symbol No.	Part No.	Description
R802	06S45674W97	RES, RK 473J 1/10 -CP
RA101	06S45591W07	RES, ARY MNR101J 4-CP
RA102	06S45591W13	RES, ARY MNR221J 4-CP
RA103	06S45591W16	RES, ARY MNR223J 4-CP
RA104	06S45591W16	RES, ARY MNR223J 4-CP
RA105	06S45591W06	RES, ARY MNR102J 4-CP
RA106	06S45591W06	RES, ARY MNR102J 4-CP
RA107	06S45591W07	RES, ARY MNR101J 4-CP
RA108	06S45591W16	RES, ARY MNR223J 4-CP
RA109	06S45591W07	RES, ARY MNR101J 4-CP
Connectors		
CB101	09T45492Y16	FFC, 54550-1690 -E9
CB102	09T45492Y08	FFC, 54550-0890 -E9
CB103	09T45442Y45	FFC, 54104-4592 -EQ
DP LED P.W.Board		
LED's		
LD501	48T16057W03	LED, AN501-A, B
LD502	48T16057W03	LED, AN501-A, B
LD503	48T16057W03	LED, AN501-A, B
Capacitors		
C501	08S45677W42	CAP, CER, 181J-CH1H-CP
C502	08S45677W42	CAP, CER, 181J-CH1H-CP
C503	08S45677W42	CAP, CER, 181J-CH1H-CP
Resistors		
R501	06S64995F43	RES, RK 391J 1/8 -CP
R502	06S64995F43	RES, RK 391J 1/8 -CP
R503	06S64995F43	RES, RK 391J 1/8 -CP
Miscellanous		
ANT1	01T15513W23	ASSY, ANT CABLE 7844
CB802	09T55175W16	CON, 53377-1620
CH810	01T25413Y02	ASSY, WIRE MOTOR

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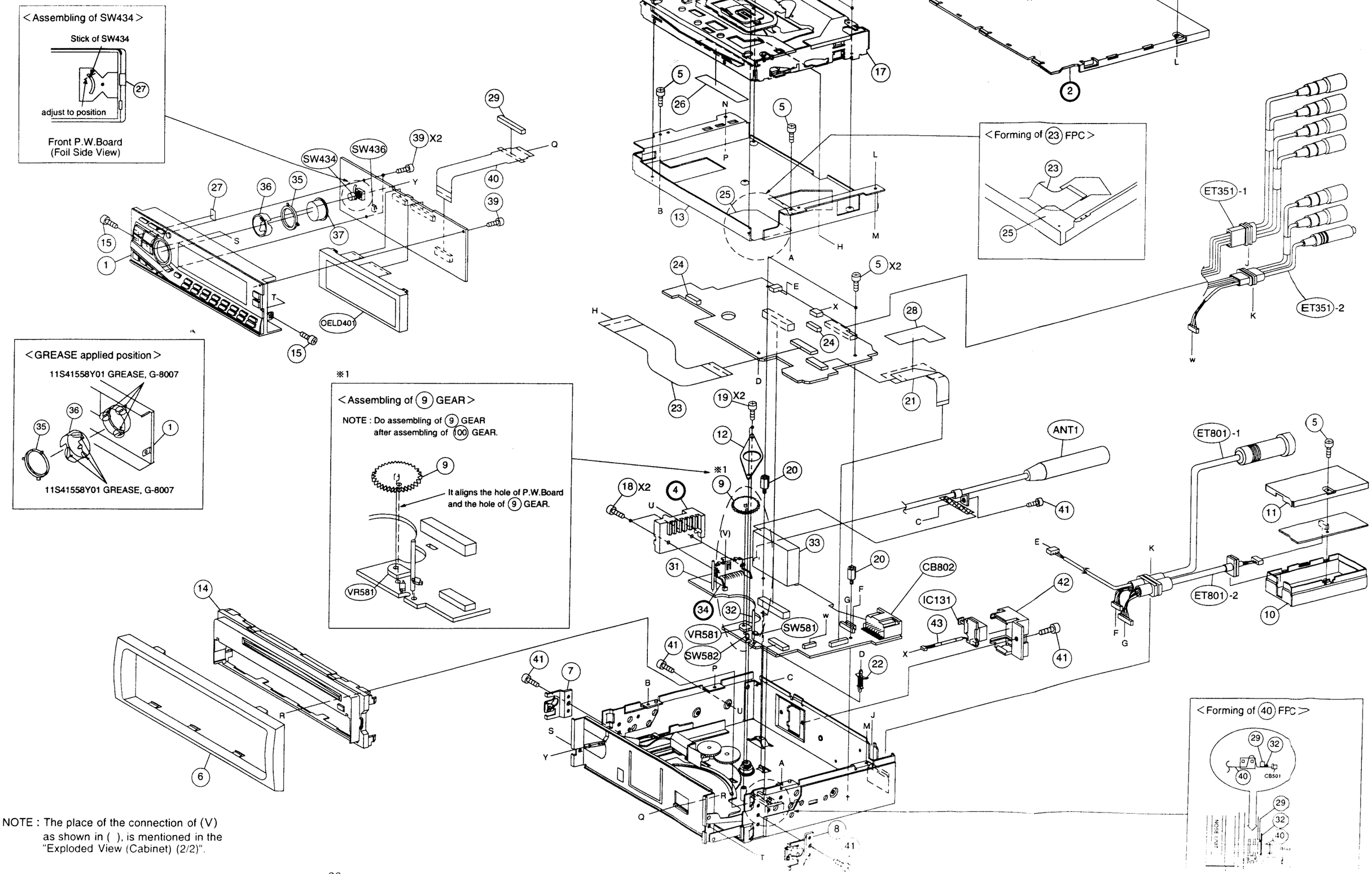
Symbol No.	Part No.	Description
ET351	01T35497Y23	ASSY, WIRE RCA 7998R (FRONT OUT/REAR OUT/SUB-W)
ET801	01T35496Y09	ASSY, DIN 7998A
IC131	51T75111W01	TOTX193 -DS (OPTICAL D-OUT)
M810	59T65085W01	MOTOR, LOAD FF-050SK (NOSE MOTOR/7V-370mA)
OELD401	01T55371Y01	OELD, UEL10008
SW434	40T45624Y03	ENC, EC11E152T4 -DB (AUTO LIFT ROTARY)
SW436	40T55422Y02	SW, PUSH SW1A8-350A-B (NOSE DOWN DET)
SW581	40T15494Y07	SW, DETCT SPVG21 -E6 (NOSE OPEN DET)
SW582	40T15494Y08	SW, DETCT SPVG11 -E6 (NOSE CLOSE DET)
VR581	18T25405Y02	ROT, RDC503001 -EA (LINEAR POSITION SENSOR)
DP23T020		
HD1	81B51283Y01	PICKUP, EP21A720
M1	01V63600Y27	ASSY, MOTOR SPINDLE (VM:4V, VCC:5V-140mA)
M2	01V46300Y41	ASSY, MOTOR LOAD(5V-290mA)
M3	01V46300Y42	ASSY, MOTOR SLED(5V-290mA)
SW101	40T15494Y02	SW, DETCT SPVG13 -E6 (DISC CHUCKING END)
SW102	40T15494Y01	SW, DETCT SPVG23 -E6(LIMIT)

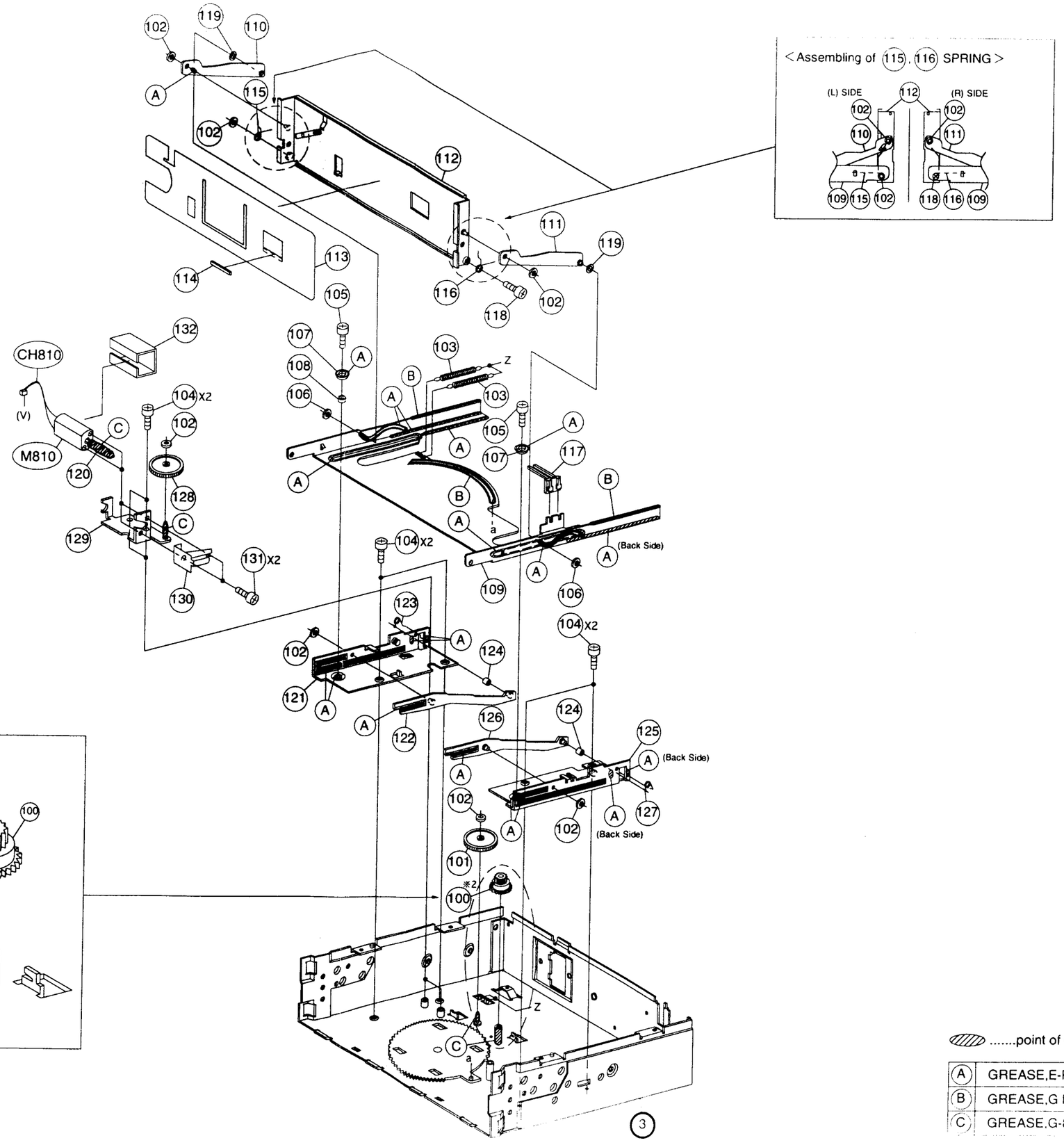
Symbol No.	Part No.	Description

Exploded View (Cabinet) (1/2)



NOTE : The place of the connection of (V) as shown in ( ), is mentioned in the "Exploded View (Cabinet) (2/2)".

Exploded View (Cabinet) (2/2)



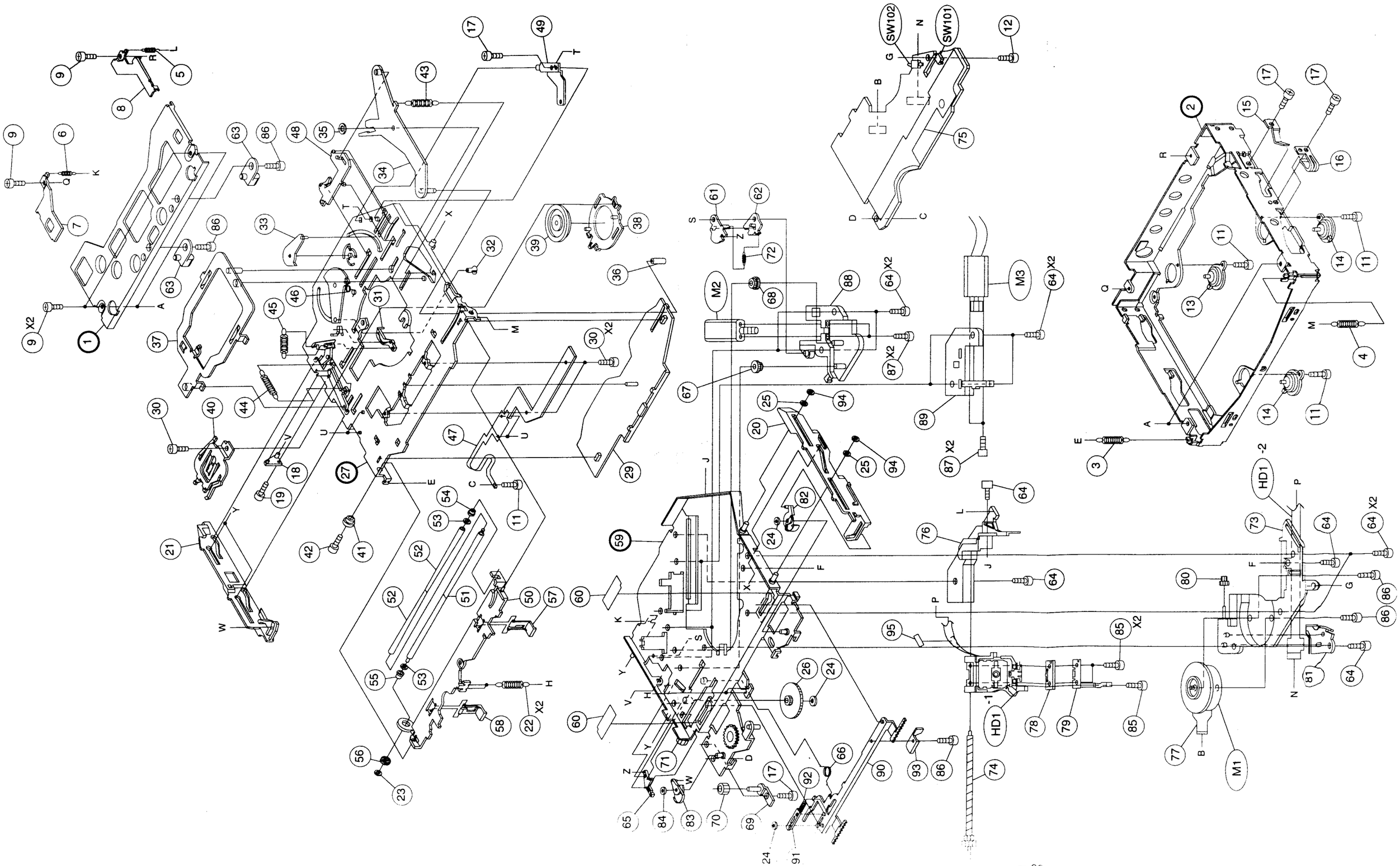
NOTE : The place of the connection of (V) as shown in ( ), is mentioned in the "Exploded View (Cabinet) (1/2)".

..... point of GREASE applied.

A	GREASE,E-PAST (1 S42419J09)
B	GREASE,G PASTE (1 S42419J19)
C	GREASE,G-8007 (11 41558Y01)

Exploded View (CD Deck Mechanism)

(DP23T020)



Cabinet Assembly Parts List

NOTE:The part that has not PART NUMBER will not be supplied.

Symbol No.	Index	Part No.	Description
1		13C50735Y03	NOSE, PIECE ASSY
2		---------	COVER, TOP
3		---------	ASSY, RIV. CHAS BASE
4		---------	HEAT, SINK SIDE
5		03S44205G29	SCR, T-TITE M2.6X6
6		33C50062Y01	FACE, PLATE
7		07D91595W01	BKT, SIDE ASSY
8		07D91595W02	BKT, SIDE(R) ASSY
9		44A31316Y01	GEAR, SENSOR
10		15C50804Y01	CASE, DC-DC
11		15B50803Y01	COVER, DC-DC
12		07A50798Y01	BKT, GEAR
13		07C50797Y01	BKT, CD
14		13B50790Y01	NOSE, BASE ASSY
15		03S94385F60	SCR, NYLOK M2.6X4
16		03S94385F13	SCR, NYLOK M2.6X3
17		81D50784Y01	DP23T020
18		03S38013W02	SCR, T-TITE M2.6X14
19		03S94385F24	SCREW, NYLOK
20		47A31548Y02	SHAFT, PWB
21		30T55512Y01	FCUJ(0.5)-22F-47
22		43T15475Y03	SPACER, PWB YP-12.5
23		84T55484Y01	FPC, MAIN-CD MECH7897
24		75S40755Y82	CUS, RUB 10X4XT3.5
25		14A51744Y01	INS, CVR FPC
* 26		14S31545Y33	INS, CVR 60X24XT0.025
27		75T25010Y60	CUSHION, SHLD 4-3F-6
28		14A60603Y01	INS, CVR FFC
29		75S40755Y89	CUS, RUB 20X4XT4
31		09T84840F01	LUG, STYLE 18MM
32		09T84840F02	LUG, STYLE 32MM
33		77B50182Y01	MB4R002H, FM/AM UNIT(TU001)
34		---------	BKT, IC
35		07A50795Y01	HOLDER, IN
36		07A50796Y01	HOLDER, OUT
37		36C50749Y01	KNOB, ROTALY ASSY
39		03S68555F20	SCR, WAVE M1.7X5
40		84T55483Y01	FPC, MAIN-FRONT 7897
41		03S38013W51	SCR, T-TITE M2.6X6 CP
42		15B71937W01	COVER, CONN. D-OUT
43		01T75451W20	ASSY, WIRE D-OUT 98R
100		44A50815Y01	GEAR, JOINT
101		44A31309Y01	GEAR, DRIVE
102		04B41345P54	WASHER, LOCK
* 103		41A50818Y01	SPRING, SLIDE
104		03S94385F13	SCR, NYLOK M2.6X3
105		03S94385F25	SCREW, NYLOK
106		04B41345P23	WASH, 1.7X5X0.35
107		43A50493Y01	BUSH, SLIDER
108		49A60581Y01	ROLLER, SLIDER
109		07C50806Y01	BKT, SLIDER
110		01A51673Y01	ASSY, RIV. ARM L
111		01A51673Y02	ASSY, RIV. ARM R
112		01B51538Y01	ASSY, RIV. NOSE BTM
113		14B50840Y01	INS, CVR BOTTOM
114		75S40755Y74	CUS, RUB 20X3XT3
115		41A50816Y01	SPRING, NOSE L
116		41A50816Y02	SPRING, NOSE R
117		15A31306Y01	HOLDER, FPC
118		03A20851Y02	SCR, SLIDER
119		43A50493Y02	BUSH, ARM
120		44A90467W02	GEAR, WORM
121		01B51576Y01	ASSY, RIV. BKT BASE L
122		01A51672Y01	ASSY, RIV. LEVER L
123		41A31311Y01	SPRING, LEBER L
124		43A31315Y01	BUSH, LEVER
125		01B51576Y02	ASSY, RIV. BKT BASE R
126		01A51672Y02	ASSY, RIV. LEVER R
127		41A31311Y02	SPRING, LEVER R
128		44B90541W02	GEAR CLUTCH, ASSY
129		07B31305Y01	BKT, MOTOR
130		41A31313Y01	SPRING, WORM
131		03S40014G07	SCR, MCH M2X4
132		26A60211Y01	SHIELD, MOTOR

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CD Deck Mechanism Assembly Parts List

NOTE:The part that has not PART NUMBER will not be supplied.

Symbol No.	Index	Part No.	Description
1		---------	CHASSIS, TOP-DP23T
2		---------	CHAS, BASE-DP23T
3		41B31430Y11	SPRING, PULL
4		41B31430Y02	SPRING, PULL
5		41B31430Y10	SPRING, PULL
6		41B31430Y04	SPRING, PULL
7		07A41540Y01	BKT, CHAS. TOP(L)
8		07A41541Y01	BKT, CHAS. TOP(R)
9		03S38013W71	SCR, T-TITE M2X3
11		03S94385F19	SCR, NYLOK M2X2.5
12		03S52360F86	SCR, MACH M2X8
13		75C31436Y06	DAMPER, DV-T
14		75C31436Y05	DAMPER, DV-T
15		41B50301Y01	SPRING, SLIDER(RR)
16		41B50302Y01	SPRING, SLIDER(RF)
17		03S94385F07	SCR, NYLOK M2X2
18		01A31147Y01	ASSY, RIV. LEV. CLP(B)
19		03A41113Y01	SCR, MCH M1.7X0.35
20		45C30959Y01	SLIDER, LOCK(R)
21		45C30960Y01	SLIDER, LOCK(L)
22		41B31430Y09	SPRING, PULL
23		04B41345P18	WASH, 1.2X2.5X0.35
24		04B41345P12	WASH, L. 1.7X3.5X0.35
25		04A40504Y02	WASHER, 1.5X3X0.3
26		44B30946Y01	GEAR, (D)
27		---------	ASSY, RIV. CLAMP BASE
29		15D30952Y02	GUIDE, TOP DVT
30		03S94385F28	SCR, NYLOK M1.7X2
31		45A30962Y02	LEVER, ACTUATOR
32		43A41839Y01	ROLLER, STP-DISC
33		45B30961Y02	LEVER, STP-DISC
34		01A31152Y01	ASSY, RIV. LEVER DISC
35		04B41345P14	WASH, L. 2.1X4X0.25
36		43A31103Y01	BUSH, LEVER DISC
37		01B31146Y01	ASSY, RIV. SLIDER CLP
38		01A31150Y01	ASSY, RIV. HOLDER CLP
39		43B30963Y01	TABLE, CLAMPER
40		07B30884Y01	PLATE, CLAMP
41		43A31157Y01	BUSH, ARM GUIDE
42		03S94385F02	SCR, NYLOK M1.7X3
43		41B31430Y05	SPRING, PULL
44		41B31430Y06	SPRING, PULL
45		41B31430Y07	SPRING, PULL
46		41A31431Y01	SPRING, LEVER
47		84T35622Y01	FPC, LED
48		45A30878Y01	LEVER, LOCK
49		41B50303Y01	SPRING, LEVER LOCK

Symbol No.	Index	Part No.	Description
50		01A31143Y01	ASSY, RIV. ARM GUIDE
51		47A60310Y01	SHAFT, ROLLER(2)
52		49A31435Y01	ROLLER, DV-T
53		04S40075G09	WASH, 2.6X4.7X0.25
54		43A30955Y01	BUSH, ROLLER(R)
55		43A30956Y01	BUSH, ROLLER(L)
56		44A30949Y01	GEAR, (G)
57		44A30953Y01	ARM, FRONT(R)
58		44A30954Y01	ARM, FRONT(L)
59		---------	ASSY, RIV. CHAS. D-L
60		14A40520Y01	COVER, SLIDER-LD
61		45A30882Y01	ARM, LINK(A)
62		45A30883Y01	ARM, LINK(B)
63		07A41797Y01	BKT, STOPPER DISC(F)
64		03S94385F09	SCR, NYLOK M2X3 P2
65		01A31151Y01	ASSY, RIV. ARM TIMING
66		41A31432Y01	SPRING, SLIDER
67		44B30944Y01	GEAR, (B)
68		44B30945Y01	GEAR, (C)
69		01A31145Y01	ASSY, RIV. BKT. GEAR-E
70		44B30947Y01	GEAR, (E)
71		44B30948Y01	GEAR, (F)
72		41B31430Y08	SPRING, PULL
73		07C41250Y01	BKT, BASE DPT
74		01V54770Y37	ASSY, SHAFT SCREW
75		14B50061Y01	INSULATOR, PWB-DPT
76		07B40949Y01	BKT, SHAFT MAIN
77		84T45505Y01	FPC, MOTOR
78		44B41997Y01	SPRING NUT, DZM
79		41B41489Y01	SPRING, PICK
80		44A41491Y01	GEAR, MIDDLE DPT
81		41B50072Y01	SPRING, MULTI
82		45B30957Y02	ARM, LOCK(R)
83		45B30958Y03	ARM, LOCK(L)
84		04B41345P27	WASH, L. 1.7X4.6X0.5
85		03S70494F65	SCR, P-TITE M1.4X3
86		03S94385F01	SCR, NYLOK M1.7X2.3
87		03S72235F81	SCR, MCH M1.4X2.0
88		07B41249Y01	BKT, MOTOR LOAD
89		07B40946Y01	BKT, MOTOR SLED
90		01B31144Y02	ASSY, RIV SLIDER LD
91		44B30951Y01	RACK
92		41A31433Y01	SPRING, COMP-LOAD
93		07A40950Y01	BKT, SLIDER LOAD
94		04B41345P15	WASH, 1.2X3.5X0.35
95		14A51713Y01	INSULATOR, PICK UP